10765267Amend

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS	5	MAY 11	KOREAPAT updates resume
NEWS	6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS	8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS	9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS	10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS	11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS	12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS	13	JUl 14	FSTA enhanced with Japanese patents
NEWS	14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS	15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS	16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS	17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 15:36:47 ON 06 SEP 2006

10765267Amend

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=> fil reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 15:36:58 ON 06 SEP 2006
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STRUCTURE FILE UPDATES:     5 SEP 2006  HIGHEST RN 905905-44-4
DICTIONARY FILE UPDATES:    5 SEP 2006  HIGHEST RN 905905-44-4

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http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10765267phenol.str
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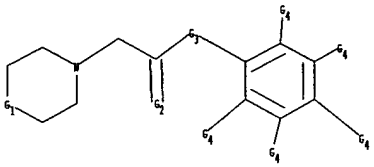

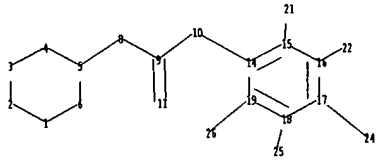

chain nodes :
8 9 10 11 21 22 24 25 26
ring nodes :
1 2 3 4 5 6 14 15 16 17 18 19
chain bonds :
5-8 8-9 9-10 9-11 10-14 15-21 16-22 17-24 18-25 19-26
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 8-9 9-10 9-11 10-14 15-21 16-22 17-24
18-25 19-26
normalized bonds :
14-15 14-19 15-16 16-17 17-18 18-19

G1:C,O,N,P

G2:O,S,N

G3:O,S

G4:H,NO2,X

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 21:CLASS 22:CLASS
24:CLASS 25:CLASS 26:CLASS

10765267Amend

L1 STRUCTURE UPLOADED

=>
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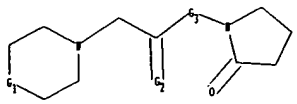

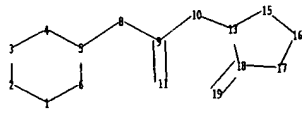

chain nodes :
8 9 10 11 19
ring nodes :
1 2 3 4 5 6 13 15 16 17 18
chain bonds :
5-8 8-9 9-10 9-11 10-13 18-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-15 13-18 15-16 16-17 17-18
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 8-9 9-10 9-11 10-13 13-15 13-18 15-16
16-17 17-18 18-19

G1:C,O,N,P

G2:O,S,N

G3:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS

L2 STRUCTURE UPLOADED

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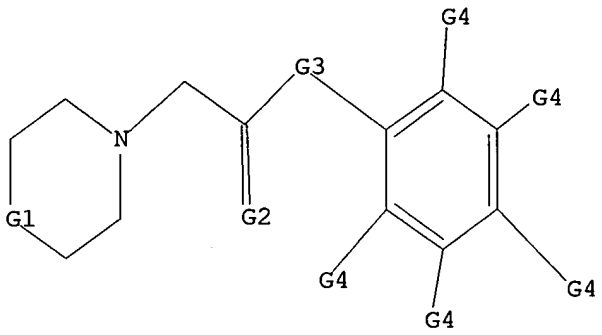
L1 HAS NO ANSWERS
L1 STR



G1 C,O,N,P

G2 O,S,N

G3 O,S

G4 H,NO2,X

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 4657 TO ITERATE

42.9% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 89048 TO 97232
PROJECTED ANSWERS: 1 TO 137

L3 1 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 15:37:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 93042 TO ITERATE

100.0% PROCESSED 93042 ITERATIONS 152 ANSWERS
SEARCH TIME: 00.00.01

L4 152 SEA SSS FUL L1

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=> d l2
L2 HAS NO ANSWERS
L2                STR
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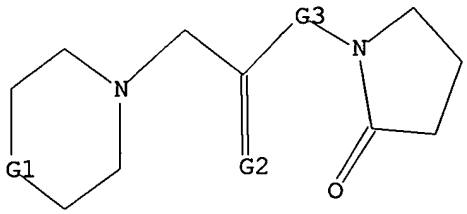

G1 C,O,N,P

G2 O,S,N

G3 O,S

Structure attributes must be viewed using STN Express query preparation.

```
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SAMPLE SCREEN SEARCH COMPLETED -       13 TO ITERATE

100.0% PROCESSED       13 ITERATIONS                                 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           44 TO      476
PROJECTED ANSWERS:               2 TO      124

L5            2 SEA SSS SAM L2

=> s l2 full
FULL SEARCH INITIATED 15:38:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      281 TO ITERATE

100.0% PROCESSED      281 ITERATIONS                                33 ANSWERS
SEARCH TIME: 00.00.01

L6           33 SEA SSS FUL L2

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     333.88     334.09

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FILE COVERS 1907 - 6 Sep 2006 VOL 145 ISS 11
FILE LAST UPDATED: 5 Sep 2006 (20060905/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

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=> d his

     (FILE 'HOME' ENTERED AT 15:36:47 ON 06 SEP 2006)

     FILE 'REGISTRY' ENTERED AT 15:36:58 ON 06 SEP 2006
L1             STRUCTURE UPLOADED
L2             STRUCTURE UPLOADED
L3           1 S L1
L4         152 S L1 FULL
L5           2 S L2
L6          33 S L2 FULL

     FILE 'CAPLUS' ENTERED AT 15:38:04 ON 06 SEP 2006

=> s l6 and (isotope or isotop?)
           21 L6
       227669 ISOTOPE
       326525 ISOTOP?
L7          5 L6 AND (ISOTOPE OR ISOTOP?)

=> s l4 and (isotope or isotop?)
           52 L4
       227669 ISOTOPE
       326525 ISOTOP?
L8          3 L4 AND (ISOTOPE OR ISOTOP?)

=> d ed abs ibib hitstr 1-3
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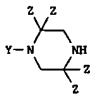
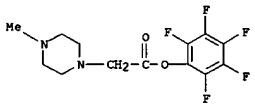
L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



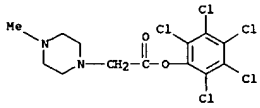
AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is isotopically enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:592130 CAPLUS
DOCUMENT NUMBER: 143:115574
TITLE: Preparation of isotopically enriched N-substituted piperazines
INVENTOR(S): Pappin, Darryl J. C.; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 857503-00-5 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentachlorophenyl ester (9CI) (CA INDEX NAME)



RN 857503-01-6 CAPLUS
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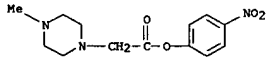
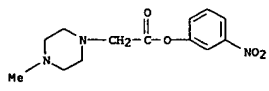


RN 857503-03-8 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 3-nitrophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148773	A1	20050707	US 2004-751388	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

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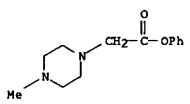
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

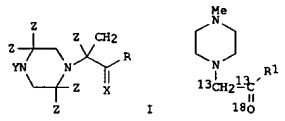
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:115574
IT 856187-95-6, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



IT 857027-10-2P 857503-00-5P 857503-01-6P
857503-03-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl, C1-C6 alkyl ether; Z = H, 2H, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically labeled N-methylpiperazine II (R1 = 18OH) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinimido).

ACCESSION NUMBER: 2005:592129 CAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine acetic acids, including isotopically enriched versions
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148771	A1	20050707	US 2004-751354	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

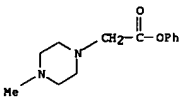
PRIORITY APPLN. INFO.:

US 2004-751353	A	20040105
US 2004-751354	A	20040105

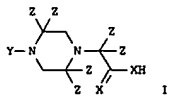
L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

	US 2004-751387	A	20040105
	US 2004-751388	A	20040105
	US 2004-822639	A	20040412
	US 2004-852730	A	20040524
	WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:97398
IT 856187-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of active esters of N-substituted piperazine acetic acids and
their labeled derivs.)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



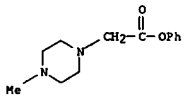
AB Isotopically enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom isotopes [X = O, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms)] are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like. Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the
combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER:	2005:588426 CAPLUS
DOCUMENT NUMBER:	143:115568
TITLE:	Preparation of isotopically enriched N-substituted piperazine-1-acetic acids
INVENTOR(S):	Dey, Subhakar; Pappin, Darryl J. c.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S):	Applera Corp., USA

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

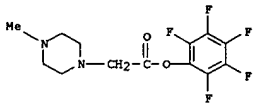
SOURCE:	U.S. Pat. Appl. Publ., 29 pp. CODEN: USXXCO		
DOCUMENT TYPE:	Patent		
LANGUAGE:	English		
FAMILY ACC. NUM. COUNT:	6		
PATENT INFORMATION:			
PATENT NO.	KIND	DATE	APPLICATION NO. DATE
US 2005148774	A1	20050707	US 2004-751387 20040105
AU 2005205522	A1	20050728	AU 2005-205522 20050105
WO 2005068446	A1	20050728	WO 2005-US223 20050105
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
PRIORITY APPLN. INFO.:			US 2004-751353 A 20040105
			US 2004-751354 A 20040105
			US 2004-751387 A 20040105
			US 2004-751388 A 20040105
			US 2004-822639 A 20040412
			US 2004-852730 A 20040524
			WO 2005-US223 W 20050105

OTHER SOURCE(S): MARPAT 143:115568
IT 856187-95-6, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



IT 857027-10-2P 857503-00-5P 857503-01-6P
857503-03-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



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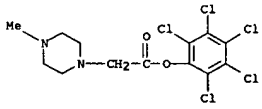

RN 857503-01-6 CAPLUS
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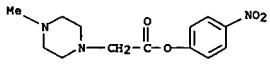

RN 857503-03-8 CAPLUS
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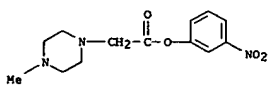

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L2              STRUCTURE UPLOADED
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L4          152 S L1 FULL
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L6           33 S L2 FULL

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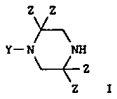
L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is isotopically enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols., and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:592130 CAPLUS
DOCUMENT NUMBER: 143:115574
TITLE: Preparation of isotopically enriched N-substituted piperazines
INVENTOR(S): Pappin, Darryl J. C.; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.

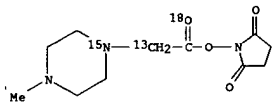
L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148773	A1	20050707	US 2004-751388	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

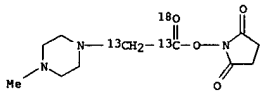
PRIORITY APPLN. INFO.:		
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:115574
IT 856188-20-0P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



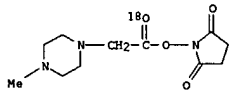
●2 HCl

IT 856188-16-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

IT 856187-87-6P 856188-06-2P 857027-09-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 CAPLUS
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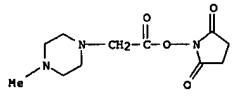
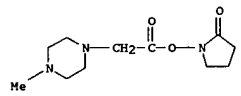
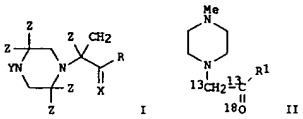


RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



I II

AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl, C1-C6 alkyl ether; Z = H, 2H, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically labeled N-methylpiperazine II (R1 = 18OH) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinimido).

ACCESSION NUMBER: 2005:592129 CAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine acetic acids, including isotopically enriched versions
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148771	A1	20050707	US 2004-751354	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

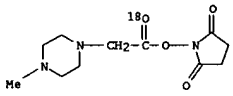
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:97398
IT 856187-87-6P 856188-06-2P 856188-16-4P
856188-20-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of active esters of N-substituted piperazine acetic acids and
their labeled derivs.)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 CAPLUS
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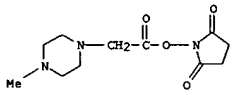
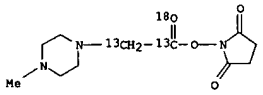


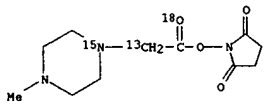
RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



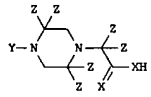
●2 HCl

RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



I

AB Isotopically enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom isotopes [X = O, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms)] are prepared. N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like. Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:588426 CAPLUS
DOCUMENT NUMBER: 143:115568
TITLE: Preparation of isotopically enriched N-substituted piperazine-1-acetic acids
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. c.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

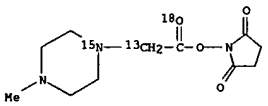
L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148774	A1	20050707	US 2004-751387	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:		
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:115568
IT 856188-20-0P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



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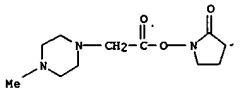
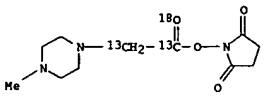
IT 856188-16-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

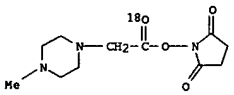


L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

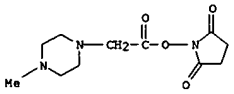


●2 HCl

IT 856187-87-6P 856188-06-2P 857027-09-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

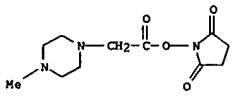


RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 16 May 2005
AB Glycerophosphoethanolamine (GPEtn) and glycerophosphoserine (GPSer) lipids were reacted with a multiplexed set of differentially isotopically enriched N-methylpiperazine acetic acid N-hydroxysuccinimide ester reagents, which place isobaric mass labels at a primary amino group. The resulting derivitized aminophospholipids were isobaric and chromatog. indistinguishable but yielded pos. reporter ions (m/z 114 or 117) after collisional activation that could be used to identify and quantify individual members of the multiplex set. The chromatog. and mass spectrometric response of N-methylpiperazine amide-tagged aminophospholipids was probed using glycerophosphoethanolamine and glycerophosphoserine lipid stds. The [M+H]+ of each tagged aminophospholipid shifted 144 Da, and during collision-induced dissociation the major fragmentation ion was either m/z 114 or 117. This mode of detecting aminophospholipids was useful for an unbiased anal. of plasmalogen GPEtn lipids. Mol. species information on the esterified fatty acyl substituents was obtained by collisional activation of the [M-H]- ions. The isotope-tagged reagents were used to assess changes in the distribution of GPEtn lipids after exposure of liposomes made from phospholipids extracted from RAW 264.7 cells to Cu2+/H2O2 to illustrate the ability of these reagents to aid in the mass spectrometric identification of aminophospholipid changes that occur during biol. stimuli.

ACCESSION NUMBER:	2005:412987 CAPLUS
DOCUMENT NUMBER:	144:186804
TITLE:	Analysis of cell membrane aminophospholipids as isotope-tagged derivatives
AUTHOR(S):	Zemski Berry, Karin A.; Murphy, Robert C.
CORPORATE SOURCE:	Department of Pharmacology, University of Colorado Health Sciences Center, Aurora, CO, 80045, USA
SOURCE:	Journal of Lipid Research (2005), 46(5), 1038-1046 CODEN: JLPRAW; ISSN: 0022-2275
PUBLISHER:	American Society for Biochemistry and Molecular Biology, Inc.
DOCUMENT TYPE:	Journal
LANGUAGE:	English

IT 856188-06-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and mass spectrometric anal. of cell membrane aminophospholipids as isotope-tagged derivs.)
RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Oct 2004
AB Provided is a method for characterizing a mol. by mass spectrometry, which mol. comprises one or more free amino groups, which method comprises: (a) reacting one or more free amino groups in the mol. with a mass tag reagent comprising a reactive functionality capable of reacting with an amino group, and a tertiary amino group linked to the reactive functionality; and (b) characterizing the mol. by mass spectrometry.
ACCESSION NUMBER: 2004:824132 CAPLUS
DOCUMENT NUMBER: 141:310231
TITLE: Mass labels
INVENTOR(S): Hamon, Christian; Kuhn, Karsten; Thompson, Andrew; Reuschling, Dieter; Schaefer, Juergen
PATENT ASSIGNEE(S): Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome Sciences PLC
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004086050	A2	20041007	WO 2004-GB1167	20040318
WO 2004086050	A3	20041229		
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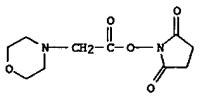
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004223631	A1	20041007	AU 2004-223631	20040318
CA 2520297	AA	20041007	CA 2004-2520297	20040318
EP 1606623	A2	20051221	EP 2004-721565	20040318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
NO 2005004684	A	20051012	NO 2005-4684	20051012
PRIORITY APPLN. INFO.:			GB 2003-6756 A	20030324
			WO 2004-GB1167 W	20040318

IT 741683-76-1P 741683-79-4P 768385-34-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mass labels)
RN 741683-76-1 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-79-4 CAPLUS
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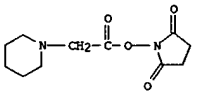

RN 768385-34-8 CAPLUS
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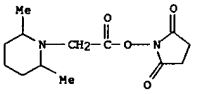

N10.

10765267Amend

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	50.52	384.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.00	-6.00

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PASSWORD:
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NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5	MAY 11	KOREAPAT updates resume
NEWS 6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 13	JUl 14	FSTA enhanced with Japanese patents
NEWS 14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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FULL ESTIMATED COST                                         0.21       0.21

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DICTIONARY FILE UPDATES:    5 SEP 2006  HIGHEST RN 905905-44-4

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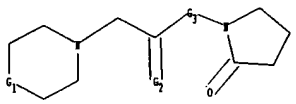

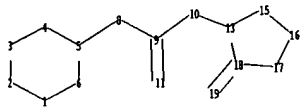

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ring nodes :
1 2 3 4 5 6 13 15 16 17 18
chain bonds :
5-8 8-9 9-10 9-11 10-13 18-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-15 13-18 15-16 16-17 17-18
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 8-9 9-10 9-11 10-13 13-15 13-18 15-16
16-17 17-18 18-19

G1:C,O,N,P

G2:O,S,N

G3:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 13:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS

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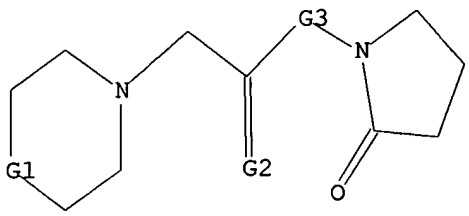

G1 C,O,N,P

G2 O,S,N

G3 O,S

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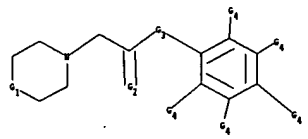

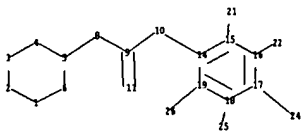

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ring nodes :
1 2 3 4 5 6 14 15 16 17 18 19

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ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-8 8-9 9-10 9-11 10-14 15-21 16-22 17-24
18-25 19-26
normalized bonds :
14-15 14-19 15-16 16-17 17-18 18-19

G1:C,O,N,P

G2:O,S,N

G3:O,S

G4:H,NO2,X

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 21:CLASS 22:CLASS
24:CLASS 25:CLASS 26:CLASS

L2 STRUCTURE UPLOADED

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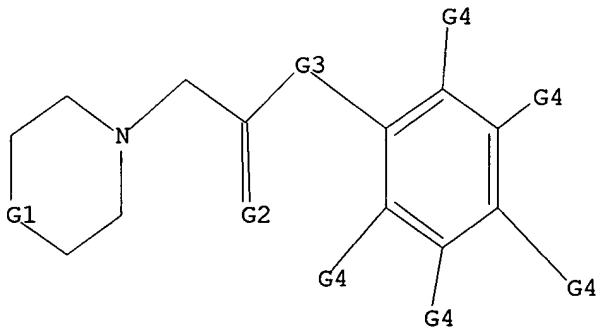
L2 HAS NO ANSWERS
L2 STR



G1 C,O,N,P

G2 O,S,N

G3 O,S

G4 H,NO2,X

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 44 TO 476
PROJECTED ANSWERS: 2 TO 124

L3 2 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 15:33:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 281 TO ITERATE

100.0% PROCESSED 281 ITERATIONS 33 ANSWERS
SEARCH TIME: 00.00.01

L4 33 SEA SSS FUL L1

=> s l2
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SAMPLE SCREEN SEARCH COMPLETED - 4657 TO ITERATE

42.9% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 89048 TO 97232
PROJECTED ANSWERS: 1 TO 137

L5 1 SEA SSS SAM L2

=> s l2 full
FULL SEARCH INITIATED 15:33:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 93042 TO ITERATE

100.0% PROCESSED 93042 ITERATIONS 152 ANSWERS
SEARCH TIME: 00.00.01

L6 152 SEA SSS FUL L2

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 335.20 335.41

FILE 'CAPLUS' ENTERED AT 15:33:21 ON 06 SEP 2006
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FILE COVERS 1907 - 6 Sep 2006 VOL 145 ISS 11
FILE LAST UPDATED: 5 Sep 2006 (20060905/ED)

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L2                STRUCTURE UPLOADED
L3              2 S L1
L4             33 S L1 FULL
L5              1 S L2
L6            152 S L2 FULL

     FILE 'CAPLUS' ENTERED AT 15:33:21 ON 06 SEP 2006

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L7            21 L4

=> s l6
L8            52 L6

=> s l4 not l6
              21 L4
              52 L6
L9            15 L4 NOT L6

=> d ed abs ibib hitstr 1-15
```
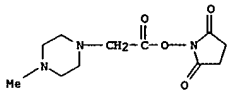

L9 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 16 May 2005
AB Glycerophosphoethanolamine (GPEtn) and glycerophosphoserine (GPSer) lipids were reacted with a multiplexed set of differentially isotopically enriched N-methylpiperazine acetic acid N-hydroxysuccinimide ester reagents, which place isobaric mass labels at a primary amino group. The resulting derivitized aminophospholipids were isobaric and chromatog. indistinguishable but yielded pos. reporter ions (m/z 114 or 117) after collisional activation that could be used to identify and quantify individual members of the multiplex set. The chromatog. and mass spectrometric response of N-methylpiperazine amide-tagged aminophospholipids was probed using glycerophosphoethanolamine and glycerophosphoserine lipid stds. The [M+H]+ of each tagged aminophospholipid shifted 144 Da, and during collision-induced dissociation the major fragmentation ion was either m/z 114 or 117. This mode of detecting aminophospholipids was useful for an unbiased anal. of plasmalogen GPEtn lipids. Mol. species information on the esterified fatty acyl substituents was obtained by collisional activation of the [M-H]- ions. The isotope-tagged reagents were used to assess changes in the distribution of GPEtn lipids after exposure of liposomes made from phospholipids extracted from RAW 264.7 cells to Cu2+/H2O2 to illustrate the ability of these reagents to aid in the mass spectrometric identification of aminophospholipid changes that occur during biol. stimuli.
ACCESSION NUMBER: 2005:412987 CAPLUS
DOCUMENT NUMBER: 144:186804
TITLE: Analysis of cell membrane aminophospholipids as isotope-tagged derivatives
AUTHOR(S): Zemski Berry, Karin A.; Murphy, Robert C.
CORPORATE SOURCE: Department of Pharmacology, University of Colorado Health Sciences Center, Aurora, CO, 80045, USA
SOURCE: Journal of Lipid Research (2005), 46(5), 1038-1046
CODEN: JLPRAW; ISSN: 0022-2275
PUBLISHER: American Society for Biochemistry and Molecular Biology, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 856188-06-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and mass spectrometric anal. of cell membrane aminophospholipids as isotope-tagged derivs.)
RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

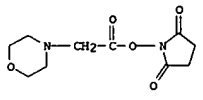
L9 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L9 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Oct 2004
AB Provided is a method for characterizing a mol. by mass spectrometry, which mol. comprises one or more free amino groups, which method comprises: (a) reacting one or more free amino groups in the mol. with a mass tag reagent comprising a reactive functionality capable of reacting with an amino group, and a tertiary amino group linked to the reactive functionality; and (b) characterizing the mol. by mass spectrometry.
ACCESSION NUMBER: 2004:824132 CAPLUS
DOCUMENT NUMBER: 141:310231
TITLE: Mass labels
INVENTOR(S): Hamon, Christian; Kuhn, Karsten; Thompson, Andrew; Reuschling, Dieter; Schaefer, Juergen
PATENT ASSIGNEE(S): Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome Sciences PLC
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

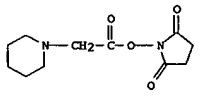
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004086050	A2	20041007	WO 2004-GB1167	20040318
WO 2004086050	A3	20041229		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004223631	A1	20041007	AU 2004-223631	20040318
CA 2520297	AA	20041007	CA 2004-2520297	20040318
EP 1606623	A2	20051221	EP 2004-721565	20040318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
NO 2005004684	A	20051012	NO 2005-4684	20051012
PRIORITY APPLN. INFO.:			GB 2003-6756	A 20030324
			WO 2004-GB1167	W 20040318

IT 741683-76-1P 741683-79-4P 768385-34-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mass labels)
RN 741683-76-1 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

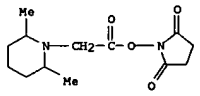
L9 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-79-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



RN 768385-34-8 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(2,6-dimethyl-1-piperidinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



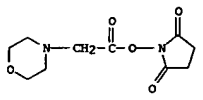
L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 20 Aug 2004
AB This invention pertains to methods, mixts., kits and/or compns. for the determination of analytes by mass anal. using unique labeling reagents or sets of unique labeling reagents. The labeling reagents can be isomeric or isobaric and can be used to produce mixts. suitable for multiplex anal. of the labeled analytes.
ACCESSION NUMBER: 2004:681717 CAPLUS
DOCUMENT NUMBER: 141:202794
TITLE: Methods, mixtures, kits and compositions pertaining to analyte determination
INVENTOR(S): Pappin, Darryl J. C.; Bartlet-Jones, Michael
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004070352	A2	20040819	WO 2004-US2077	20040127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004209401	A1	20040819	AU 2004-209401	20040127
CA 2488584	AA	20040819	CA 2004-2488584	20040127
US 2004219685	A1	20041104	US 2004-765264	20040127
US 2004220412	A1	20041104	US 2004-765267	20040127
US 2004219686	A1	20041104	US 2004-766498	20040127
EP 1588145	A2	20051026	EP 2004-705571	20040127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2006105416	A1	20060518	US 2005-319685	20051228

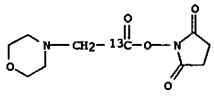
PRIORITY APPLN. INFO.: US 2003-443612P P 20030130
US 2004-765267 A1 20040127
WO 2004-US2077 W 20040127

IT 741683-76-1P 741683-77-2P 741683-78-3P
741683-79-4P 741683-80-7P 741683-86-3P
741683-93-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(methods, mixts., kits and compns. pertaining to analyte determination)
RN 741683-76-1 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

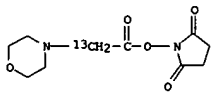
L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



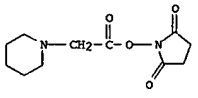
RN 741683-77-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)



RN 741683-78-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)

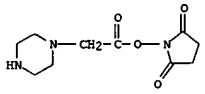


RN 741683-79-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

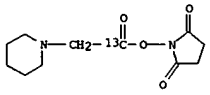


RN 741683-80-7 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperazinylacetyl)oxy]- (9CI) (CA INDEX NAME)

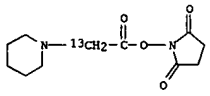
L9 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-86-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)



RN 741683-93-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)



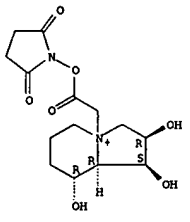
L9 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 17 May 2004
AB The process comprises N-alkylating swainsonine with bromoacetic acid N-succinimido ester in acetone under refluxing, coupling with bovine serum albumin in water at 0 °C, dialyzing, freeze drying, and emulsifying with Freund's adjuvant.
ACCESSION NUMBER: 2004:399339 CAPLUS
DOCUMENT NUMBER: 141:254556
TITLE: Grassland's locoweed toxin vaccine
INVENTOR(S): Dong, Dewen; Cao, Guangrong; Zhao, Baoyu; Ge, Pengbin
PATENT ASSIGNEE(S): Danong Biotechnology Co., Ltd., Yangling, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1395967	A	20030212	CN 2002-114592	20020524

PRIORITY APPLN. INFO.: CN 2002-114592 20020524

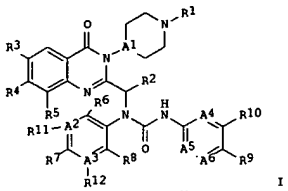
IT 754196-04-8P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(vaccine for Grassland's locoweed toxin)
RN 754196-04-8 CAPLUS
CN Indolizinium, 4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]octahydro-1,2,8-trihydroxy-, bromide, (1S,2R,8R,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Br^-

L9 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 28 Nov 2003
GI



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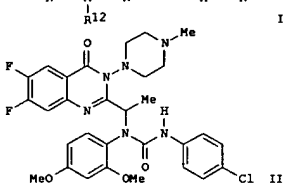


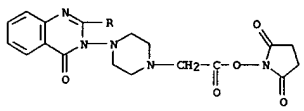
II

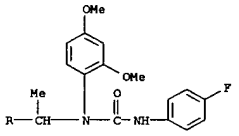
AB This invention relates to compds. of formula I [A1-A6 = C, N; R1 = H, alkyl, cycloalkyl, CH2-cycloalkyl, etc.; R2 = alkyl; R3-R12 = H, alkyl, CF3, alkoxy, halo, OH, CN, etc.] that are efflux pump inhibitors and therefore are useful as potentiators of anti-fungal agents for the treatment of infections caused by fungi that employ an efflux pump resistance mechanism. Thus, II was prepared and showed a reduced MIC value against Candida albicans in the presence of fluconazole.

ACCESSION NUMBER: 2003:930975 CAPLUS
DOCUMENT NUMBER: 139:395945
TITLE: Preparation of quinazolinylmethyl urea derivatives as fungal efflux pump inhibitors
INVENTOR(S): Watkins, Will J.; Lemoine, Remy; Cho, Aesop; Palme, Monica
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 906,864.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

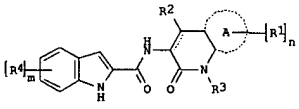
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003220338	A1	20031127	US 2002-243074	20020912
US 6596723	B1	20030722	US 2001-906864	20010716
US 2003229097	A1	20031211	US 2002-334755	20021230
US 6689782	B2	20040210		
WO 2004024140	A1	20040325	WO 2003-US5184	20030221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003215343	A1	20040430	AU 2003-215343	20030221
PRIORITY APPLN. INFO.:			US 2001-906864	A2 20010716
			US 2002-243074	A2 20020912
			US 2002-334755	A 20021230
			WO 2003-US5184	W 20030221

OTHER SOURCE(S): MARPAT 139:395945
IT 626245-59-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of quinazolinylmethyl urea derivs. as fungal efflux pump inhibitors)
RN 626245-59-8 CAPLUS
CN Urea, N-(2,4-dimethoxyphenyl)-N-[1-[3-[4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1-piperazinyl]-3,4-dihydro-4-oxo-2-quinazolinyl]ethyl]-N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)





L9 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 14 Sep 2003
GI



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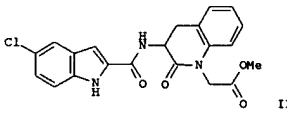


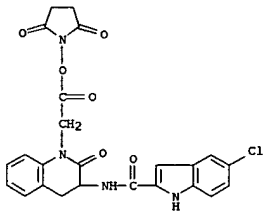
II

AB The title compds. [I; A = phenylene or heteroarylene; m = 0-2; n = 0-2; R1 = halo, NO2, CN, OH, CO2H, etc.; R2 = H, OH, CO2H; R3 = H, OH, aryl, heterocyclyl, etc.; R4 = H, halo, NO2, CN, etc.] which possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity such as diabetes type II, were prepared Thus, amidation of 5-chloro-1H-indole-2-carboxylic acid with Me 2-(3-amino-2-oxo-3,4-dihydroquinolin-1-(2H)-yl)acetate (preparation given) in the presence of HOBT, DCM and EDCI afforded 59% II. The compds. I showed IC50 values in the range 100μM to 1nM against against hrl glycogen phosphorylase a. Pharmaceutical composition comprising the compound I was claimed.

ACCESSION NUMBER: 2003:719471 CAPLUS
DOCUMENT NUMBER: 139:261174
TITLE: Preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors
INVENTOR(S): Birch, Alan Martin; Morley, Andrew David
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

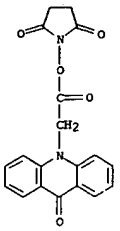
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074513	A2	20030912	WO 2003-GB893	20030304
WO 2003074513	A3	20031231		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003216991	A1	20030916	AU 2003-216991	20030304
EP 1485371	A2	20041215	EP 2003-712313	20030304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005131016	A1	20050616	US 2003-506748	20030304
JP 2005525364	T2	20050825	JP 2003-572981	20030304
PRIORITY APPLN. INFO.:			GB 2002-5162	A 20020306
			WO 2003-GB893	W 20030304

OTHER SOURCE(S): MARPAT 139:261174
IT 599193-13-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors)
RN 599193-13-2 CAPLUS
CN 1H-Indole-2-carboxamide, 5-chloro-N-[1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 01 Dec 1999
AB A simple and sensitive LC method that rapidly labels amino compds. including amino acids, using acridine-9-N-acetyl-N-hydroxysuccinimide (AAHS) which was synthesized by the reaction of acridine-9-N-acetic acid with benzenedisulfonyl-N-hydroxysuccinimide, was developed. A mixture of amines is treated with AAHS in the presence of triethylamine in non-aqueous acetonitrile or in 0.2 mol l-1 borate buffer at pH 8.0-9.0 in 40% volume/volume acetonitrile solution to give quant. yields of amides. The emission maximum for the derivatized amines is 435 nm (λex = 404 nm). The labeled derivs. are very stable; no significant decomposition is observed after heating in 50% acetonitrile at 40° for 24 h. Studies on the derivatization conditions indicate that amines or amino acids react very rapidly with AAHS under the proposed conditions. The method, in conjunction with a multi-step gradient, offers baseline resolution of common amine or amino acid derivs. on a reversed-phase C18 column. This method is more convenient and more efficient than previous methods which require prior conversion of carboxylic acids to acyl chlorides, which are unstable to moisture. The LC separation of amine or amino acid derivs. has good reproducibility. The established method is also suitable for the determination of other amine compds. in various biol. fluids.
ACCESSION NUMBER: 1999:759500 CAPLUS
DOCUMENT NUMBER: 132:148595
TITLE: Characterization and application of acridine-9-N-acetyl-N-hydroxysuccinimide as a pre-column derivatization agent for fluorimetric detection of amino acids in liquid chromatography
AUTHOR(S): You, Jinmao; Lao, Wenjian; You, Jing; Wang, Guojun
CORPORATE SOURCE: Lanzhou Inst. Chem. Phys., Chinese Academy of Sciences, Lanchou, 730000, Peop. Rep. China
SOURCE: Analyst (Cambridge, United Kingdom) (1999), 124(12), 1755-1760
CODEN: ANALAO; ISSN: 0003-2654
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 150321-96-3P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(characterization and application of acridine-9-N-acetyl-N-hydroxysuccinimide as a pre-column derivatization agent for fluorimetric detection of amino acids in liquid chromatog.)
RN 150321-96-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L9 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 26 Mar 1996
AB The synthesis of 10,10'-substituted-9,9'-bisacridine mols. and their derivs. is disclosed. These mols. catalyze the production of light by chemiluminescence in the presence of a signal solution having at a pH from about 10.0 to about 14.0, at a concentration effective for producing a chemiluminescent signal, a chelating agent, a sulfoxide, a reducing sugar, and oxidant or combination of oxidants, an alc. and aqueous sodium tetraborate. These 10,10'-substituted-9,9'-biacridines are used alone or attached to haptens or macromols. and are utilized as labels in the preparation of chemiluminescent, homogeneous or heterogeneous assays. They are also used in conjunction with other chemiluminescent label mols. to produce multiple analyte chemiluminescent assays. An assay demonstrating the linearity of the signal with increasing dilns. of an anti-TSH-10,10'-para-toluo-9,9'-bisacridine conjugate is described.
ACCESSION NUMBER: 1996:171871 CAPLUS
DOCUMENT NUMBER: 124:225820
TITLE: Preparation of derivatized 10,10'-substituted-9,9'-bisacridine luminescent molecules and signal solutions
INVENTOR(S): Katsilometes, George W.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9600392	A1	19960104	WO 1995-US7966		19950622
W: CN, JP, KR					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
EP 766825	A1	19970409	EP 1995-924671		19950622
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
CN 1155931	A	19970730	CN 1995-194681		19950622
JP 10502346	T2	19980303	JP 1995-503340		19950622
US 5866335	A	19990202	US 1996-767288		19961216
HK 1001416	A1	20050826	HK 1998-100291		19980114
PRIORITY APPLN. INFO.:			US 1994-265481	A	19940624
			WO 1995-US7966	W	19950622

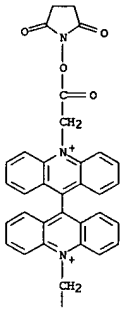
IT 174569-85-8
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(preparation of bisacridine luminescent derivs. and signal solns.)
RN 174569-85-8 CAPLUS
CN 9,9'-Biacridinium, 10,10-bis[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-, dinitrate (9CI) (CA INDEX NAME)

CM 1

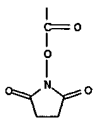
CRN 174569-84-7
CMF C38 H28 N4 O8

L9 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



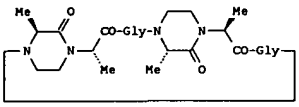
PAGE 2-A



CM 2

CRN 14797-55-8
CMF N O3

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 21 Mar 1995
GI



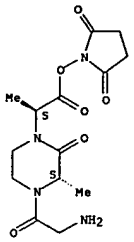
I

AB The crystal structure of 18-membered cyclic pseudopeptide I, containing N,N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine was determined by x-ray crystallog. Moreover, the structure of this pseudopeptide was examined by 1H NMR measurement in CD3CN, and by mol. mechanics calcns.

ACCESSION NUMBER: 1995:427460 CAPLUS
DOCUMENT NUMBER: 123:83982
TITLE: Structure of cyclic hexa-pseudopeptide constructed from N,N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine
AUTHOR(S): Kojima, Yoshitane; Yamashita, Tetsushi; Miyake, Hiroyuki
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Chemistry Letters (1995), (3), 201-2
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Nippon Kagakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 164857-03-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(structure of cyclic hexapseudopeptide constructed from ethylene-bridged alanylalanine and glycine)
RN 164857-03-8 CAPLUS
CN Piperazinone, 4-(aminoacetyl)-1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-methyl-2-oxoethyl]-3-methyl-, monohydrochloride, [5-(R*,R*)]- (9CI) (CA INDEX NAME)

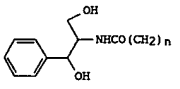
Absolute stereochemistry.

L9 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 23 Jul 1994
GI



I

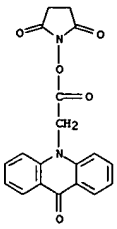
AB Fluorescent compds. useful in the determination of chloramphenicol acetyltransferase (CAT) enzyme activity are described. The compds. BASE-Ns-*X are fluorescent derivs. related in structure to chloramphenicol comprising a base (I), substituted at one to five aromatic ring positions by substituents, which may be the same or different, that are alkyl, hydroxy, alkoxy, aryl, halo, nitro, amino, alkylamido, or arylamido, and 0 < n < 6; and a fluorescent moiety *X (nonreduced tricyclic difluoroboradiazaindacene fluorophore) linked to the terminal CH2 of BASE through a linker Ns (e.g., NH*X, NHCOCH2*X). The substrate compds. are acylated in the presence of CAT to produce fluorescent mono- and diacylated products, which are then phys. separated from the reaction mixture and quantitated by means of their fluorescence and/or absorbance. Fluorescent mols. conjugated to chloramphenicol include derivs. of fluorescein, rhodamine, coumarin, dimethylaminonaphthalenesulfonic acid (dansyl), pyrene, anthracene, nitrobenzoxadiazole (NBD), acridine and dipyrromethaneboron difluoride.

ACCESSION NUMBER: 1994:435864 CAPLUS
DOCUMENT NUMBER: 121:35864
TITLE: Fluorescent chloramphenicol derivatives for determination of chloramphenicol acetyltransferase activity
INVENTOR(S): Haughland, Richard P.; Kang, Hee C.; Young, Steven L.; Melner, Michael H.
PATENT ASSIGNEE(S): Molecular Probes, Inc., USA
SOURCE: U.S., 13 pp. Cont. of U.S. Ser. No. 321,494, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5262545	A	19931116	US 1991-722352	19910618
US 5364764	A	19941115	US 1992-994992	19921221
PRIORITY APPLN. INFO.:			US 1989-321494	B1 19890309
			US 1991-722352	A3 19910618

OTHER SOURCE(S): MARPAT 121:35864
IT 150321-96-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(fluorescent chloramphenicol derivs. for determination of chloramphenicol acetyltransferase activity)
RN 150321-96-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA

L9 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)

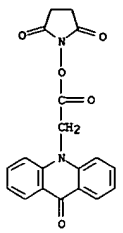


L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Mar 1994
AB A photoluminometric immunoassay comprises reacting 2 immunoreactants, 1 labeled with a photoluminescent energy transfer donor capable of photoluminescence and the other labeled with a photoluminescent energy transfer acceptor complementary to the donor; exciting the sample with radiation; and calculating the apparent luminescence lifetime to determine the presence of a reaction product. Studies were done using goat anti-mouse IgG labeled with the donor dichlorotriazinylaminofluorescein and mouse IgG labeled with the acceptor tetramethylrhodamine isothiocyanate.
ACCESSION NUMBER: 1994:101282 CAPLUS
DOCUMENT NUMBER: 120:101282
TITLE: Fluorescent energy transfer immunoassay
INVENTOR(S): Lakowicz, Joseph; Maliwal, Badri; Thompson, Richard; Ozinskas, Alvydas
PATENT ASSIGNEE(S): University of Maryland, USA
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 552108	A2	19930721	EP 1993-400091	19930115
EP 552108	A3	19930922		
R: DE, FR, GB, IT				
CA 2087413	AA	19930718	CA 1993-2087413	19930115
JP 06066802	A2	19940311	JP 1993-6057	19930118
JP 3325939	B2	20020917		
US 5631169	A	19970520	US 1994-183238	19940119
PRIORITY APPLN. INFO.:			US 1992-822233 A	19920117

IT 150321-96-3D, conjugates with immunoreactant
RL: ANST (Analytical study)
(in photoluminometric immunoassay)
RN 150321-96-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

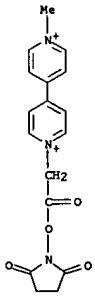
L9 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 01 Nov 1992
AB Metmyoglobin covalently linked with viologen was prepared and reduced by dithionite ions faster than the native metmyoglobin, suggesting that the reduction by dithionite of the attached viologen was followed by a rapid intramol. electron transfer from the viologen radical cation to the heme iron center.
ACCESSION NUMBER: 1992:566123 CAPLUS
DOCUMENT NUMBER: 117:166123
TITLE: Effect of the chemical modification by viologen on the reduction of metmyoglobin
AUTHOR(S): Tsukahara, Keiichi; Todorobaru, Hiromi
CORPORATE SOURCE: Fac. Sci., Nara Women's Univ., Nara, 630, Japan
SOURCE: Chemistry Letters (1992), (7), 1181-4
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 143674-76-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and coupling of, with metmyoglobin)
RN 143674-76-4 CAPLUS
CN 4,4'-Bipyridinium, 1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1'-methyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 143674-75-3
CMF C17 H17 N3 O4

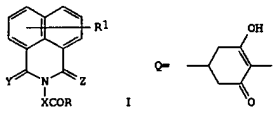


CM 2

CRN 14797-73-0
CMF Cl O4

L9 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Oct 1991
GI



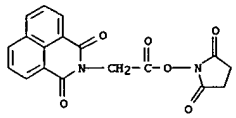
AB The title compds. [I; R = ON:CR5R6; R1 = 1-4 substituents which may be the same or different selected from H, halo, cyano, (halo)alkyl, etc.; R5 = H, cyano, alkyl, alkenyl, etc.; R6 = H, cyano, (halo)alkyl, alkoxy, etc.; X = (un)substituted alkylene; Y, Z = O, S] were prepared as safeners for 2-[(hetero)aryloxyphenoxy]acetate and -propionate or alkoximinomethylenecycylohexenone herbicides. Thus, I (R1 = H, X = CH2, Y = Z = O) (II); R = Cl) (preparation given) was condensed with Me2C:NOH to give
II (R = ON:CMe2). II [R = ON:CR5R6; R5R6 = (CH2)3CH:C(OEt)] reduced damage to wheat of 0.03 kg/ha of the herbicide EtSCHMEH2Z1C(:NOEt)Pr (Z1 = hydroxycyclohexenonylene group Q) from 70 to 10% (with 95% control of annual ryegrass) at 0.125 kg/ha.

ACCESSION NUMBER: 1991:535937 CAPLUS
DOCUMENT NUMBER: 115:135937
TITLE: Preparation of N-[[(alkylideneimino)oxycarbonyl]alkyl]-1,8-naphthalenedicarboximides and analogs as herbicide safeners
INVENTOR(S): Saupe, Thomas; Meyer, Norbert; Plath, Peter; Schirmer, Ulrich; Wuerzer, Bruno; Westphalen, Karl Otto; Patsch, Manfred; Pfister, Juergen
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

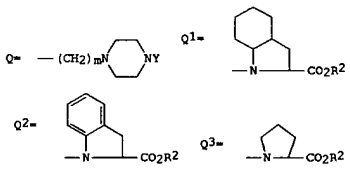
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 430004	A2	19910605	EP 1990-122030	19901117
EP 430004	A3	19911218		
R: AT, CH, DE, ES, FR, GB, IT, LI, NL, SE				
DE 3939379	A1	19910606	DE 1989-3939379	19891129
DE 4021654	A1	19920109	DE 1990-4021654	19900707
CA 2030129	AA	19910530	CA 1990-2030129	19901116
US 5076831	A	19911231	US 1990-615865	19901120
JP 03190861	A2	19910820	JP 1990-323392	19901128

PRIORITY APPLN. INFO.: DE 1989-3939379 A 19891129
DE 1990-4021654 A 19900707

L9 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
OTHER SOURCE(S): MARPAT 115:135937
IT 135980-49-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as herbicide safener)
RN 135980-49-3 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 06 Jan 1990
GI



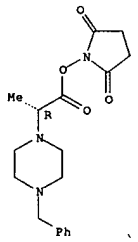
AB RR1CHCONHCH(CO2R2)(CH2)2COR3 [I; R = H, lower alkyl, PhCH2; R1 = (NH)m(CH2)nW, Q; R2 = H, lower alkyl; R3 = Q1, Q2, Q3, NR4CHR2CO2R2; W = H, CO2H, NH2, OH; Y = H, lower alkyl, Ph, PhCH2; R4 = C4-8 cycloalkyl, halo, alkoxy, (OH-substituted) Ph; m = 0, 1; n = 0-4] and their salts are prepared Refluxing 28 g 2-(S)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl 2-(S)-bromopropionate, 2.2 g of which was stirred with 1.6 g 1-benzylpiperazine in MeCN, then hydrolyzed with aqueous NaOH to give 1.0 g 2-(R)-(4-benzylpiperazinyl)propionic acid (II). Then, 24.5 g N-benzyloxycarbonyl-O1-ethyl-D-glutamic acid was stirred with 17.5 g Et (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylate-HCl in CH2Cl2, then reduced,and then hydrolyzed with aqueous NaOH to give 15.01 g (2S, 3aS, 7aS)-1-(γ-D-glutamyl)octahydro-1H-indole-2-carboxylic acid (III). Then, 0.8 g II was treated with 0.4 g N-hydroxysuccinimide in CHCl3 to give 2-(R)-(4-benzylpiperazinyl)propionic acid N-hydroxysuccinimide ester, which was treated with 1.0 g III in THF to give 0.8 g (2S, 3aS, 7aS)-1-[N-2(R)-(4-benzylpiperazinyl)propionyl]-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, 0.4 g of which was refluxed with HCO2H in MeOH in the presence of Pd black for 4 h to give 0.2 g (2S, 3aS, 7aS)-1-[N-(2R)-piperazinylpropionyl)-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, which showed an IC50 of 2.1 + 10-7 M against angiotensin converting enzyme.

ACCESSION NUMBER: 1990:7937 CAPLUS
DOCUMENT NUMBER: 112:7937
TITLE: Preparation and testing of tripeptide derivatives as cardiovascular agents
INVENTOR(S): Sawayama, Tadahiro; Nishimura, Kazuya; Deguchi, Takashi
PATENT ASSIGNEE(S): Dainippon Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

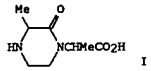
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01125357	A2	19890517	JP 1987-281873	19871106

L9 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PRIORITY APPLN. INFO.: JP 1987-281873 19871106
OTHER SOURCE(S): MARPAT 112:7937
IT 124078-64-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and condensation of, with (glutamyl)indolecarboxylic acid)
RN 124078-64-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[1-oxo-2-[4-(phenylmethyl)-1-piperazinyl]propoxy]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L9 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Jul 1988
GI



I

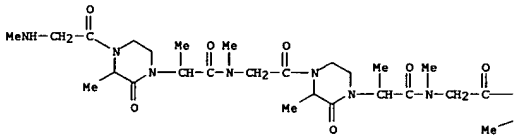
AB Synthetic routes to cyclic peptides cyclo(Sar-EAA)4 (EAA = residue of title acid I) and cyclo(Sar-Sar-Sar-EAA)2 are described. Interaction of these cyclic peptides with p-toluenesulfonic acid salt of sodium, benzylamine, and 4-phenylbutylamine were studied by 1H NMR.

ACCESSION NUMBER: 1988:423356 CAPLUS
DOCUMENT NUMBER: 109:23356
TITLE: Interactions of organic substrates with 30- and 36-membered ring peptides containing (2S,3'S)-2-(2'-oxo-3'-methylpiperazin-1'-yl)propanoic acid and sarcosine
AUTHOR(S): Kojima, Yoshitane; Yamashita, Tetsushi; Shibata, Kozo; Ohsuka, Akio
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Polymer Journal (Tokyo, Japan) (1987), 19(10), 1221-3
CODEN: POLJB8; ISSN: 0032-3896
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 114967-10-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 114967-10-1 CAPLUS
CN 1-Piperazineacetamide, N-[2-[4-[2-[[2-[4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-methyl-2-oxoethyl]-2-methyl-3-oxo-1-piperazinyl]-2-oxoethyl]methylamino]-1-methyl-2-oxoethyl]-2-methyl-3-oxo-1-piperazinyl]-2-oxoethyl]-N,α,3-trimethyl-4-[[methyl[2-[3-methyl-4-[(methylamino)acetyl]-2-oxo-1-piperazinyl]-1-oxopropyl]amino]acetyl]-2-oxo-, [3S-[1[R*[R*[R*[R*(R*)]]]],3R*,4[R*(R*)]]]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

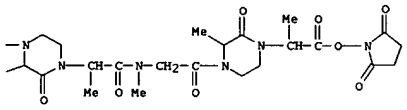
CM 1

CRN 114967-09-8
CMF C48 H73 N13 O15

PAGE 1-A



PAGE 1-B



CM 2

CRN 76-05-1
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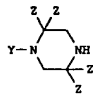
L7 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is isotopically enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:592130 CAPLUS
DOCUMENT NUMBER: 143:115574
TITLE: Preparation of isotopically enriched N-substituted piperazines
INVENTOR(S): Pappin, Darryl J. C.; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO

L7 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148773	A1	20050707	US 2004-751388	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

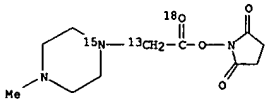
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:		
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:115574

IT 856188-20-0P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)

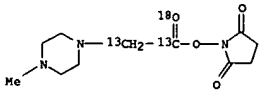
RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

IT 856188-16-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of isotopically enriched N-substituted piperazines as isobaric labeling reagents)

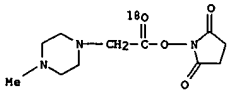
RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



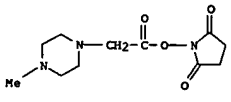
●2 HCl

IT 856187-87-6P 856188-06-2P 857027-09-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazines as isobaric labeling reagents)

RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)

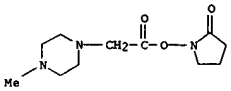


RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

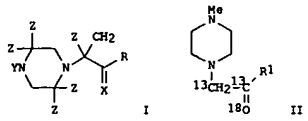


RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L7 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L7 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



I II

AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl, C1-C6 alkyl ether; Z = H, 2H, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically labeled N-methylpiperazine II (R1 = 18OH) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinimido).

ACCESSION NUMBER: 2005:592129 CAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine acetic acids, including isotopically enriched versions
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148771	A1	20050707	US 2004-751354	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

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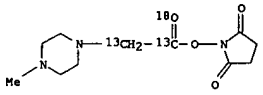
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

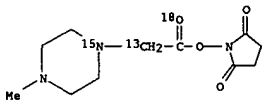
GAP

L7 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



●2 HCl

RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L7 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PRIORITY APPLN. INFO.:

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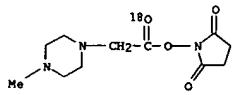
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:97398
IT 856187-87-6P 856188-06-2P 856188-16-4P
856188-20-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of active esters of N-substituted piperazine acetic acids and
their labeled derivs.)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



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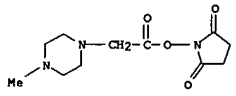

RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005

AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.

ACCESSION NUMBER: 2005:592027 CAPLUS
DOCUMENT NUMBER: 143:93642
TITLE: Mixtures of isobarically labeled analytes and fragments ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 751,353.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005147985	A1	20050707	US 2004-822639	20040412
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005148087	A1	20050707	US 2004-852730	20040524
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

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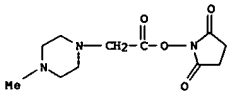
PRIORITY APPLN. INFO.:

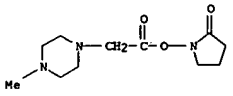
US 2004-751353	A2	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A2	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:93642
IT 856188-06-2P 857027-09-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

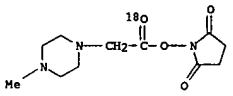
L7 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

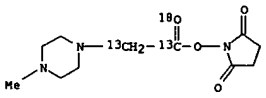


IT 856187-87-6P 856188-16-4P 856188-20-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



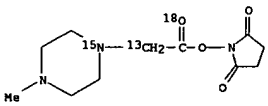
RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



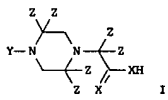
●2 HCl

RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L7 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



I

AB Isotopically enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom isotopes [X = O, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms)] are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like. Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:588426 CAPLUS
DOCUMENT NUMBER: 143:115568
TITLE: Preparation of isotopically enriched N-substituted piperazine-1-acetic acids
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. c.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

L7 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

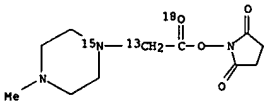
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148774	A1	20050707	US 2004-751387	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:
US 2004-751353 A 20040105
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-822639 A 20040412
US 2004-852730 A 20040524
WO 2005-US223 W 20050105

OTHER SOURCE(S): MARPAT 143:115568

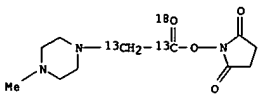
IT 856188-20-0P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856188-20-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl-1-15N)acetyl-2-13C-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

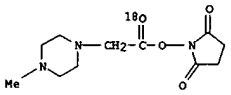
IT 856188-16-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856188-16-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-13C2-18O]oxy]-, dihydrochloride (9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

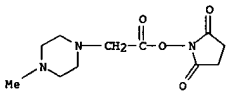


●2 HCl

IT 856187-87-6P 856188-06-2P 857027-09-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)

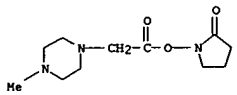


RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L7 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to isobarically labeled analytes and fragment ions thereof.

ACCESSION NUMBER: 2005:588349 CAPLUS
DOCUMENT NUMBER: 143:112150
TITLE: Isobarically labeled analytes and fragment ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S. Ser. No. 822,639.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

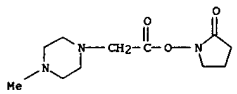
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148087	A1	20050707	US 2004-852730	20040524
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

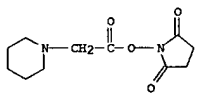
PRIORITY APPLN. INFO.:
US 2004-751353 A2 20040105
US 2004-822639 A2 20040412
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-852730 A 20040524
WO 2005-US223 W 20050105

OTHER SOURCE(S): MARPAT 143:112150
IT 857027-09-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

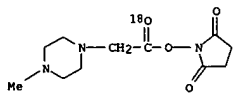
L7 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



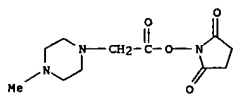
IT 741683-79-4P 856187-87-6P 856188-06-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 741683-79-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



L7 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588336 CAPLUS
DOCUMENT NUMBER: 143:93635
TITLE: Mixtures of isobarically labeled analytes and fragments ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

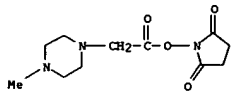
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
US 2005148087	A1	20050707	US 2004-852730	20040524
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

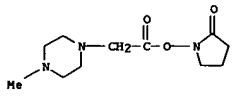
PRIORITY APPLN. INFO.:
US 2004-751353 A2 20040105
US 2004-751354 A 20040105
US 2004-751387 A 20040105
US 2004-751388 A 20040105
US 2004-822639 A2 20040412
US 2004-852730 A 20040524
WO 2005-US223 W 20050105

IT 856188-06-2P 857027-09-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

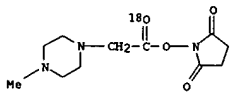
L7 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



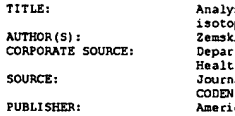
RN 857027-09-9 CAPLUS
CN 2-Pyrrolidinone, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



IT 856187-87-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856187-87-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl-18O]oxy]- (9CI) (CA INDEX NAME)



L7 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 16 May 2005
AB Glycerophosphoethanolamine (GPEtn) and glycerophosphoserine (GPSer) lipids were reacted with a multiplexed set of differentially isotopically enriched N-methylpiperazine acetic acid N-hydroxysuccinimide ester reagents, which place isobaric mass labels at a primary amino group. The resulting derivitized aminophospholipids were isobaric and chromatog. indistinguishable but yielded pos. reporter ions (m/z 114 or 117) after collisional activation that could be used to identify and quantify individual members of the multiplex set. The chromatog. and mass spectrometric response of N-methylpiperazine amide-tagged aminophospholipids was probed using glycerophosphoethanolamine and glycerophosphoserine lipid stds. The [M+H]+ of each tagged aminophospholipid shifted 144 Da, and during collision-induced dissociation the major fragmentation ion was either m/z 114 or 117. This mode of detecting aminophospholipids was useful for an unbiased anal. of plasmalogen GPEtn lipids. Mol. species information on the esterified fatty acyl substituents was obtained by collisional activation of the [M-H]- ions. The isotope-tagged reagents were used to assess changes in the distribution of GPEtn lipids after exposure of liposomes made from phospholipids extracted from RAW 264.7 cells to Cu2+/H2O2 to illustrate the ability of these reagents to aid in the mass spectrometric identification of aminophospholipid changes that occur during biol. stimuli.
ACCESSION NUMBER: 2005:412987 CAPLUS
DOCUMENT NUMBER: 144:186804
TITLE: Analysis of cell membrane aminophospholipids as isotope-tagged derivatives
AUTHOR(S): Zemski Berry, Karin A.; Murphy, Robert C.
CORPORATE SOURCE: Department of Pharmacology, University of Colorado Health Sciences Center, Aurora, CO, 80045, USA
SOURCE: Journal of Lipid Research (2005), 46(5), 1038-1046
CODEN: JLPRAW; ISSN: 0022-2275
PUBLISHER: American Society for Biochemistry and Molecular Biology, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 856188-06-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and mass spectrometric anal. of cell membrane aminophospholipids as isotope-tagged derivs.)
RN 856188-06-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(4-methyl-1-piperazinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Oct 2004
AB Provided is a method for characterizing a mol. by mass spectrometry, which mol. comprises one or more free amino groups, which method comprises: (a) reacting one or more free amino groups in the mol. with a mass tag reagent comprising a reactive functionality capable of reacting with an amino group, and a tertiary amino group linked to the reactive functionality; and (b) characterizing the mol. by mass spectrometry.
ACCESSION NUMBER: 2004:824132 CAPLUS
DOCUMENT NUMBER: 141:310231
TITLE: Mass labels
INVENTOR(S): Hamon, Christian; Kuhn, Karsten; Thompson, Andrew; Reuschling, Dieter; Schaefer, Juergen
PATENT ASSIGNEE(S): Xzillion G.m.b.H. & Co. K.-G., Germany; Proteome Sciences PLC
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004086050	A2	20041007	WO 2004-GB1167	20040318
WO 2004086050	A3	20041229		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004223631	A1	20041007	AU 2004-223631	20040318
CA 2520297	AA	20041007	CA 2004-2520297	20040318
EP 1606623	A2	20051221	EP 2004-721565	20040318

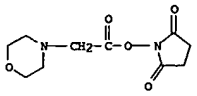
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

NO 2005004684	A	20051012	NO 2005-4684	20051012

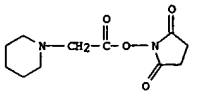
PRIORITY APPLN. INFO.:
GB 2003-6756 A 20030324
WO 2004-GB1167 W 20040318

IT 741683-76-1P 741683-79-4P 768385-34-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(mass labels)
RN 741683-76-1 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

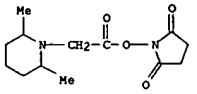
L7 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-79-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)



RN 768385-34-8 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(2,6-dimethyl-1-piperidinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)



L7 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 20 Aug 2004
AB This invention pertains to methods, mixts., kits and/or compns. for the determination of analytes by mass anal. using unique labeling reagents or sets of unique labeling reagents. The labeling reagents can be isomeric or isobaric and can be used to produce mixts. suitable for multiplex anal. of the labeled analytes.

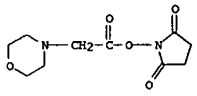
ACCESSION NUMBER: 2004:681717 CAPLUS
DOCUMENT NUMBER: 141:202794
TITLE: Methods, mixtures, kits and compositions pertaining to analyte determination
INVENTOR(S): Pappin, Darryl J. C.; Bartlet-Jones, Michael
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004070352	A2	20040819	WO 2004-US2077	20040127
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004209401	A1	20040819	AU 2004-209401	20040127
CA 2488584	AA	20040819	CA 2004-2488584	20040127
US 2004219685	A1	20041104	US 2004-765264	20040127
US 2004220412	A1	20041104	US 2004-765267	20040127
US 2004219686	A1	20041104	US 2004-765458	20040127
EP 1588145	A2	20051026	EP 2004-705571	20040127
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2006105416	A1	20060518	US 2005-319685	20051228

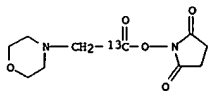
PRIORITY APPLN. INFO.: US 2003-443612P P 20030130
US 2004-765267 A1 20040127
WO 2004-US2077 W 20040127

IT 741683-76-1P 741683-77-2P 741683-78-3P
741683-79-4P 741683-80-7P 741683-86-3P
741683-93-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(methods, mixts., kits and compns. pertaining to analyte determination)
RN 741683-76-1 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl)oxy]- (9CI) (CA INDEX NAME)

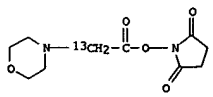
L7 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



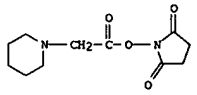
RN 741683-77-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)



RN 741683-78-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(4-morpholinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)

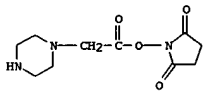


RN 741683-79-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl)oxy]- (9CI) (CA INDEX NAME)

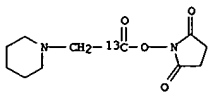


RN 741683-80-7 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperazinylacetyl)oxy]- (9CI) (CA INDEX NAME)

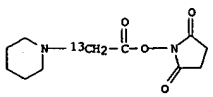
L7 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 741683-86-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-1-13C)oxy]- (9CI) (CA INDEX NAME)



RN 741683-93-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[(1-piperidinylacetyl-2-13C)oxy]- (9CI) (CA INDEX NAME)

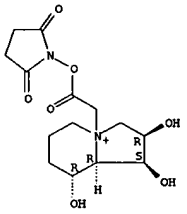


•L7 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 17 May 2004
AB The process comprises N-alkylating swainsonine with bromoacetic acid N-succinimido ester in acetone under refluxing, coupling with bovine serum albumin in water at 0 °C, dialyzing, freeze drying, and emulsifying with Freund's adjuvant.
ACCESSION NUMBER: 2004:399339 CAPLUS
DOCUMENT NUMBER: 141:254556
TITLE: Grassland's locoweed toxin vaccine
INVENTOR(S): Dong, Dewen; Cao, Guangrong; Zhao, Baoyu; Ge, Pengbin
PATENT ASSIGNEE(S): Danong Biotechnology Co., Ltd., Yangling, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1395967	A	20030212	CN 2002-114592	20020524

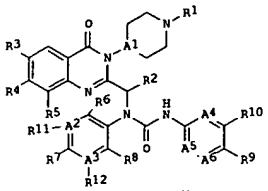
PRIORITY APPLN. INFO.: CN 2002-114592 20020524
IT 754196-04-8P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(vaccine for Grassland's locoweed toxin)
RN 754196-04-8 CAPLUS
CN Indolizinium, 4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]octahydro-1,2,8-trihydroxy-, bromide, (1S,2R,8R,8aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Br^-

L7 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 28 Nov 2003
GI



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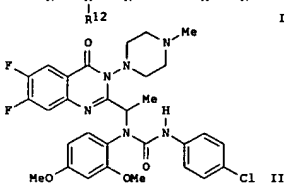


II

AB This invention relates to compds. of formula I [A1-A6 = C, N; R1 = H, alkyl, cycloalkyl, CH2-cycloalkyl, etc.; R2 = alkyl; R3-R12 = H, alkyl, CF3, alkoxy, halo, OH, CN, etc.] that are efflux pump inhibitors and therefore are useful as potentiators of anti-fungal agents for the treatment of infections caused by fungi that employ an efflux pump resistance mechanism. Thus, II was prepared and showed a reduced MIC value against Candida albicans in the presence of fluconazole.
ACCESSION NUMBER: 2003:930975 CAPLUS
DOCUMENT NUMBER: 139:395945
TITLE: Preparation of quinazolinylmethyl urea derivatives as fungal efflux pump inhibitors
INVENTOR(S): Watkins, Will J.; Lemoine, Remy; Cho, Aesop; Palme, Monica
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 109 pp., Cont.-in-part of U.S. Ser. No. 906,864.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

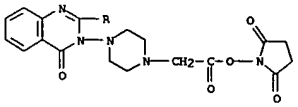
L7 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

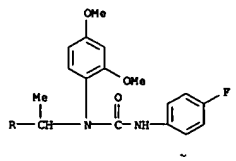
US 2003220338	A1	20031127	US 2002-243074	20020912
US 6596723	B1	20030722	US 2001-906864	20010716
US 2003229097	A1	20031211	US 2002-334755	20021230
US 6689782	B2	20040210		
WO 2004024140	A1	20040325	WO 2003-US5184	20030221

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

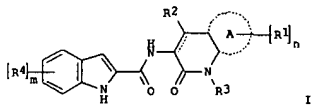
AU 2003215343	A1	20040430	AU 2003-215343	20030221

PRIORITY APPLN. INFO.:
US 2001-906864 A2 20010716
US 2002-243074 A2 20020912
US 2002-334755 A 20021230
WO 2003-US5184 W 20030221
OTHER SOURCE(S): MARPAT 139:395945
IT 626245-59-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of quinazolinylmethyl urea derivs. as fungal efflux pump inhibitors)
RN 626245-59-8 CAPLUS
CN Urea, N-(2,4-dimethoxyphenyl)-N-[1-[3-[4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1-piperazinyl]-3,4-dihydro-4-oxo-2-quinazolinyl]ethyl]-N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

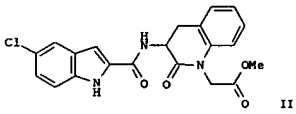




L7 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 14 Sep 2003
GI



I



II

AB The title compds. [I; A = phenylene or heteroarylene; m = 0-2; n = 0-2; R1 = halo, NO2, CN, OH, CO2H, etc.; R2 = H, OH, CO2H; R3 = H, OH, aryl, heterocyclyl, etc.; R4 = H, halo, NO2, CN, etc.] which possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity such as diabetes type II, were prepared Thus, amidation of 5-chloro-1H-indole-2-carboxylic acid with Me 2-(3-amino-2-oxo-3,4-dihydroquinolin-1-(2H)-yl)acetate (preparation given) in the presence of HOBT, DCM and EDCI afforded 59% II. The compds. I showed IC50 values in the range 100μM to 1nM against against hrl glycogen phosphorylase a. Pharmaceutical composition comprising the compound I was claimed.
ACCESSION NUMBER: 2003:719471 CAPLUS
DOCUMENT NUMBER: 139:261174
TITLE: Preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors
INVENTOR(S): Birch, Alan Martin; Morley, Andrew David
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003074513	A2	20030912	WO 2003-GB893	20030304
WO 2003074513	A3	20031231		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,

L7 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

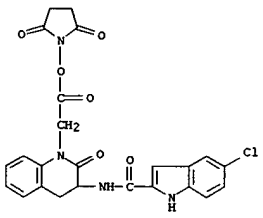
AU 2003216991	A1	20030916	AU 2003-216991	20030304
EP 1485371	A2	20041215	EP 2003-712313	20030304
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005131016	A1	20050616	US 2003-506748	20030304
JP 2005525364	T2	20050825	JP 2003-572981	20030304
PRIORITY APPLN. INFO.:			GB 2002-5162 A	20020306
			WO 2003-GB893 W	20030304

OTHER SOURCE(S): MARPAT 139:261174

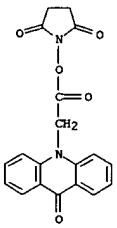
IT 599193-13-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-heterocyclyl indole-2-carboxamides as glycogen phosphorylase inhibitors)

RN 599193-13-2 CAPLUS

CN 1H-Indole-2-carboxamide, 5-chloro-N-[1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1,2,3,4-tetrahydro-2-oxo-3-quinolinyl]- (9CI) (CA INDEX NAME)



L7 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 01 Dec 1999

AB A simple and sensitive LC method that rapidly labels amino compds. including amino acids, using acridine-9-N-acetyl-N-hydroxysuccinimide (AAHS) which was synthesized by the reaction of acridine-9-N-acetic acid with benzenedisulfonyl-N-hydroxysuccinimide, was developed. A mixture of amines is treated with AAHS in the presence of triethylamine in non-aqueous acetonitrile or in 0.2 mol l-1 borate buffer at pH 8.0-9.0 in 40% volume/volume acetonitrile solution to give quant. yields of amides. The emission maximum for the derivatized amines is 435 nm (λex = 404 nm). The labeled derivs. are very stable; no significant decomposition is observed after heating in 50% acetonitrile at 40° for 24 h. Studies on the derivatization conditions indicate that amines or amino acids react very rapidly with AAHS under the proposed conditions. The method, in conjunction with a multi-step gradient, offers baseline resolution of common amine or amino acid derivs. on a reversed-phase C18 column. This method is more convenient and more efficient than previous methods which require prior conversion of carboxylic acids to acyl chlorides, which are unstable to moisture. The LC separation of amine or amino acid derivs. has good reproducibility. The established method is also suitable for the determination of other amine compds. in various biol. fluids.

ACCESSION NUMBER:	1999:759500 CAPLUS
DOCUMENT NUMBER:	132:148595
TITLE:	Characterization and application of acridine-9-N-acetyl-N-hydroxysuccinimide as a pre-column derivatization agent for fluorimetric detection of amino acids in liquid chromatography
AUTHOR(S):	You, Jinmao; Lao, Wenjian; You, Jing; Wang, Guojun
CORPORATE SOURCE:	Lanzhou Inst. Chem. Phys., Chinese Academy of Sciences, Lanchou, 730000, Peop. Rep. China
SOURCE:	Analyst (Cambridge, United Kingdom) (1999), 124(12), 1755-1760 CODEN: ANALAO; ISSN: 0003-2654
PUBLISHER:	Royal Society of Chemistry
DOCUMENT TYPE:	Journal
LANGUAGE:	English

IT 150321-96-3P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(characterization and application of acridine-9-N-acetyl-N-hydroxysuccinimide as a pre-column derivatization agent for fluorimetric detection of amino acids in liquid chromatog.)

RN 150321-96-3 CAPLUS

CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

L7 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 26 Mar 1996

AB The synthesis of 10,10'-substituted-9,9'-bisacridine mols. and their derivs. is disclosed. These mols. catalyze the production of light by chemiluminescence in the presence of a signal solution having at a pH from about 10.0 to about 14.0, at a concentration effective for producing a chemiluminescent signal, a chelating agent, a sulfoxide, a reducing sugar, and oxidant or combination of oxidants, an alc. and aqueous sodium tetraborate. These 10,10'-substituted-9,9'-biacridines are used alone or attached to haptens or macromols. and are utilized as labels in the preparation of chemiluminescent, homogeneous or heterogeneous assays. They are also used in conjunction with other chemiluminescent label mols. to produce multiple analyte chemiluminescent assays. An assay demonstrating the linearity of the signal with increasing dilns. of an anti-TSH-10,10'-para-toluo-9,9'-bisacridine conjugate is described.

ACCESSION NUMBER:	1996:171871 CAPLUS
DOCUMENT NUMBER:	124:225820
TITLE:	Preparation of derivatized 10,10'-substituted-9,9'-bisacridine luminescent molecules and signal solutions
INVENTOR(S):	Katsilometes, George W.
PATENT ASSIGNEE(S):	USA
SOURCE:	PCT Int. Appl., 50 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9600392	A1	19960104	WO 1995-US7966	19950622
W: CN, JP, KR				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 766825	A1	19970409	EP 1995-924671	19950622
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1155931	A	19970730	CN 1995-194681	19950622
JP 10502346	T2	19980303	JP 1995-503340	19950622
US 5866335	A	19990202	US 1996-767288	19961216
HK 1001416	A1	20050826	HK 1998-100291	19980114
PRIORITY APPLN. INFO.:			US 1994-265481 A	19940624
			WO 1995-US7966 W	19950622

IT 174569-85-8
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(preparation of bisacridine luminescent derivs. and signal solns.)

RN 174569-85-8 CAPLUS

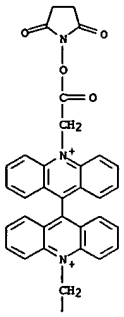
CN 9,9'-Biacridinium, 10,10-bis[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-, dinitrate (9CI) (CA INDEX NAME)

CM 1

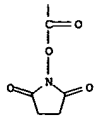
CRN 174569-84-7
CMF C38 H28 N4 O8

*L7 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



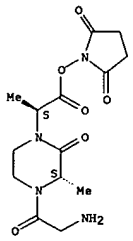
PAGE 2-A



CM 2

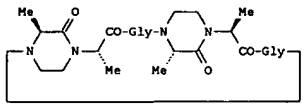
CRN 14797-55-8
CMF N O3

L7 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

L7 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 21 Mar 1995
GI



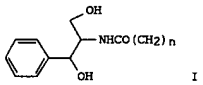
I

AB The crystal structure of 18-membered cyclic pseudopeptide I, containing N,N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine was determined by x-ray crystallog. Moreover, the structure of this pseudopeptide was examined by 1H NMR measurement in CD3CN, and by mol. mechanics calcns.

ACCESSION NUMBER: 1995:427460 CAPLUS
DOCUMENT NUMBER: 123:83982
TITLE: Structure of cyclic hexa-pseudopeptide constructed from N,N'-ethylene-bridged-(S)-alanyl-(S)-alanine and glycine
AUTHOR(S): Kojima, Yoshitane; Yamashita, Tetsushi; Miyake, Hiroyuki
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Chemistry Letters (1995), (3), 201-2
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Nippon Kagakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 164857-03-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(structure of cyclic hexapseudopeptide constructed from ethylene-bridged alanylalanine and glycine)
RN 164857-03-8 CAPLUS
CN Piperazinone, 4-(aminoacetyl)-1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-methyl-2-oxoethyl]-3-methyl-, monohydrochloride, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 23 Jul 1994
GI



I

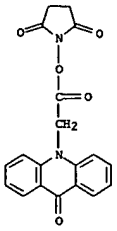
AB Fluorescent compds. useful in the determination of chloramphenicol acetyltransferase (CAT) enzyme activity are described. The compds. BASE-Ns-*X are fluorescent derivs. related in structure to chloramphenicol comprising a base (I), substituted at one to five aromatic ring positions by substituents, which may be the same or different, that are alkyl, hydroxy, alkoxy, aryl, halo, nitro, amino, alkylamido, or arylamido, and $0 < n < 6$; and a fluorescent moiety *X (nonreduced tricyclic difluoroboradiazaindacene fluorophore) linked to the terminal CH2 of BASE through a linker Ns (e.g., NH*X, NHCOCH2*X). The substrate compds. are acylated in the presence of CAT to produce fluorescent mono- and diacylated products, which are then phys. separated from the reaction mixture and quantitated by means of their fluorescence and/or absorbance. Fluorescent mols. conjugated to chloramphenicol include derivs. of fluorescein, rhodamine, coumarin, dimethylaminonaphthalenesulfonic acid (dansyl), pyrene, anthracene, nitrobenzoxadiazole (NBD), acridine and dipyrromethaneboron difluoride.

ACCESSION NUMBER: 1994:435864 CAPLUS
DOCUMENT NUMBER: 121:35864
TITLE: Fluorescent chloramphenicol derivatives for determination of chloramphenicol acetyltransferase activity
INVENTOR(S): Haughland, Richard P.; Kang, Hee C.; Young, Steven L.; Melner, Michael H.
PATENT ASSIGNEE(S): Molecular Probes, Inc., USA
SOURCE: U.S., 13 pp. Cont. of U.S. Ser. No. 321,494, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5262545	A	19931116	US 1991-722352	19910618
US 5364764	A	19941115	US 1992-994992	19921221
PRIORITY APPLN. INFO.:			US 1989-321494	B1 19890309
			US 1991-722352	A3 19910618

OTHER SOURCE(S): MARPAT 121:35864
IT 150321-96-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(fluorescent chloramphenicol derivs. for determination of chloramphenicol acetyltransferase activity)
RN 150321-96-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA

*L7 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)

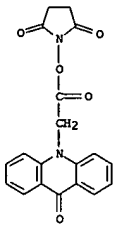


L7 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Mar 1994
AB A photoluminometric immunoassay comprises reacting 2 immunoreactants, 1 labeled with a photoluminescent energy transfer donor capable of photoluminescence and the other labeled with a photoluminescent energy transfer acceptor complementary to the donor; exciting the sample with radiation; and calculating the apparent luminescence lifetime to determine the presence of a reaction product. Studies were done using goat anti-mouse IgG labeled with the donor dichlorotriazinylaminofluorescein and mouse IgG labeled with the acceptor tetramethylrhodamine isothiocyanate.
ACCESSION NUMBER: 1994:101282 CAPLUS
DOCUMENT NUMBER: 120:101282
TITLE: Fluorescent energy transfer immunoassay
INVENTOR(S): Lakowicz, Joseph; Maliwal, Badri; Thompson, Richard; Ozinskas, Alvydas
PATENT ASSIGNEE(S): University of Maryland, USA
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 552108	A2	19930721	EP 1993-400091	19930115
EP 552108	A3	19930922		
R: DE, FR, GB, IT				
CA 2087413	AA	19930718	CA 1993-2087413	19930115
JP 06066802	A2	19940311	JP 1993-6057	19930118
JP 3325939	B2	20020917		
US 5631169	A	19970520	US 1994-183238	19940119
PRIORITY APPLN. INFO.:			US 1992-822233 A	19920117

IT 150321-96-3D, conjugates with immunoreactant
RL: ANST (Analytical study)
(in photoluminometric immunoassay)
RN 150321-96-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[[(9-oxo-10(9H)-acridinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

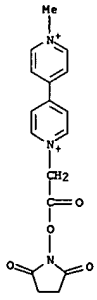
L7 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L7 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 01 Nov 1992
AB Metmyoglobin covalently linked with viologen was prepared and reduced by dithionite ions faster than the native metmyoglobin, suggesting that the reduction by dithionite of the attached viologen was followed by a rapid intramol. electron transfer from the viologen radical cation to the heme iron center.
ACCESSION NUMBER: 1992:566123 CAPLUS
DOCUMENT NUMBER: 117:166123
TITLE: Effect of the chemical modification by viologen on the reduction of metmyoglobin
AUTHOR(S): Tsukahara, Keiichi; Todorobaru, Hiromi
CORPORATE SOURCE: Fac. Sci., Nara Women's Univ., Nara, 630, Japan
SOURCE: Chemistry Letters (1992), (7), 1181-4
CODEN: CMLTAG; ISSN: 0366-7022
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 143674-76-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and coupling of, with metmyoglobin)
RN 143674-76-4 CAPLUS
CN 4,4'-Bipyridinium, 1-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]-1'-methyl-, diperchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 143674-75-3
CMF C17 H17 N3 O4

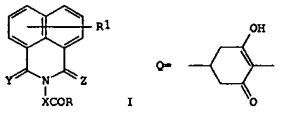


CM 2

CRN 14797-73-0
CMF Cl O4

*L7 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L7 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Oct 1991
GI

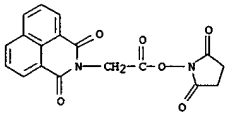


AB The title compds. [I; R = ON:CR5R6; R1 = 1-4 substituents which may be the same or different selected from H, halo, cyano, (halo)alkyl, etc.; R5 = H, cyano, alkyl, alkenyl, etc.; R6 = H, cyano, (halo)alkyl, alkoxy, etc.; X = (un)substituted alkylene; Y, Z = O, S] were prepared as safeners for 2-[(hetero)aryloxyphenoxy]acetate and -propionate or alkoximinomethylenecycylohexenone herbicides. Thus, I (R1 = H, X = CH2, Y = Z = O) (II); R = Cl) (preparation given) was condensed with Me2C:NOH to give II (R = ON:CMe2). II [R = ON:CR5R6; R5R6 = (CH2)3CH:C(OEt)] reduced damage to wheat of 0.03 kg/ha of the herbicide EtSCHMEH2Z1C(:NOEt)Pr (Z1 = hydroxycyclohexenonylene group Q) from 70 to 10% (with 95% control of annual ryegrass) at 0.125 kg/ha.

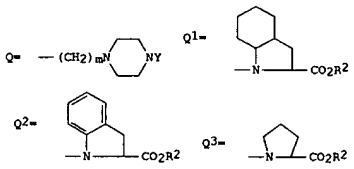
ACCESSION NUMBER: 1991:535937 CAPLUS
DOCUMENT NUMBER: 115:135937
TITLE: Preparation of N-[[(alkylideneimino)oxycarbonyl]alkyl]-1,8-naphthalenedicarboximides and analogs as herbicide safeners
INVENTOR(S): Saupe, Thomas; Meyer, Norbert; Plath, Peter; Schirmer, Ulrich; Wuerzer, Bruno; Westphalen, Karl Otto; Patsch, Manfred; Pfister, Juergen
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 430004	A2	19910605	EP 1990-122030	19901117
EP 430004	A3	19911218		
R: AT, CH, DE, ES, FR, GB, IT, LI, NL, SE				
DE 3939379	A1	19910606	DE 1989-3939379	19891129
DE 4021654	A1	19920109	DE 1990-4021654	19900707
CA 2030129	AA	19910530	CA 1990-2030129	19901116
US 5076831	A	19911231	US 1990-615865	19901120
JP 03190861	A2	19910820	JP 1990-323392	19901128
PRIORITY APPLN. INFO.:			DE 1989-3939379 A	19891129
			DE 1990-4021654 A	19900707

L7 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
OTHER SOURCE(S): MARPAT 115:135937
IT 135980-49-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as herbicide safener)
RN 135980-49-3 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethyl]- (9CI) (CA INDEX NAME)



L7 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 06 Jan 1990
GI



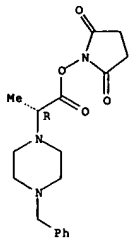
AB RR1CHCONHCH(CO2R2)(CH2)2COR3 [I; R = H, lower alkyl, PhCH2; R1 = (NH)m(CH2)nW, Q; R2 = H, lower alkyl; R3 = Q1, Q2, Q3, NR4CHR2CO2R2; W = H, CO2H, NH2, OH; Y = H, lower alkyl, Ph, PhCH2; R4 = C4-8 cycloalkyl, halo, alkoxy, (OH-substituted) Ph; m = 0, 1; n = 0-4] and their salts are prepared Refluxing 28 g 2-(S)-bromopropionic acid with 42 g PhCH2OH in PhMe gave 17.0 g benzyl 2-(S)-bromopropionate, 2.2 g of which was stirred with 1.6 g 1-benzylpiperazine in MeCN, then hydrolyzed with aqueous NaOH to give 1.0 g 2-(R)-(4-benzylpiperazinyl)propionic acid (II). Then, 24.5 g N-benzyloxycarbonyl-O1-ethyl-D-glutamic acid was stirred with 17.5 g Et (2S, 3aS, 7aS)-octahydro-1H-indole-2-carboxylate-HCl in CH2Cl2, then reduced, and then hydrolyzed with aqueous NaOH to give 15.01 g (2S, 3aS, 7aS)-1-(γ-D-glutamyl)octahydro-1H-indole-2-carboxylic acid (III). Then, 0.8 g II was treated with 0.4 g N-hydroxysuccinimide in CHCl3 to give 2-(R)-(4-benzylpiperazinyl)propionic acid N-hydroxysuccinimide ester, which was treated with 1.0 g III in THF to give 0.8 g (2S, 3aS, 7aS)-1-[N-2(R)-(4-benzylpiperazinyl)propionyl]-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, 0.4 g of which was refluxed with HCO2H in MeOH in the presence of Pd black for 4 h to give 0.2 g (2S, 3aS, 7aS)-1-[N-(2R)-piperazinylpropionyl)-γ-D-glutamyl]octahydro-1H-indole-2-carboxylic acid, which showed an IC50 of 2.1 + 10-7 M against angiotensin converting enzyme.

ACCESSION NUMBER: 1990:7937 CAPLUS
DOCUMENT NUMBER: 112:7937
TITLE: Preparation and testing of tripeptide derivatives as cardiovascular agents
INVENTOR(S): Sawayama, Tadahiro; Nishimura, Kazuya; Deguchi, Takashi
PATENT ASSIGNEE(S): Dainippon Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

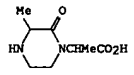
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01125357	A2	19890517	JP 1987-281873	19871106

L7 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PRIORITY APPLN. INFO.: JP 1987-281873 19871106
OTHER SOURCE(S): MARPAT 112:7937
IT 124078-64-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and condensation of, with (glutamyl)indolecarboxylic acid)
RN 124078-64-4 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[1-oxo-2-[4-(phenylmethyl)-1-piperazinyl]propoxy]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Jul 1988
GI



I

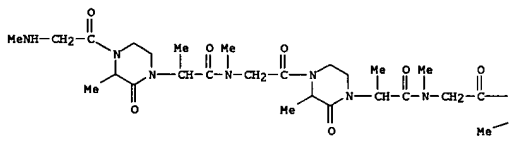
AB Synthetic routes to cyclic peptides cyclo(Sar-EAA)4 (EAA = residue of title acid I) and cyclo(Sar-Sar-Sar-EAA)2 are described. Interaction of these cyclic peptides with p-toluenesulfonic acid salt of sodium, benzylamine, and 4-phenylbutylamine were studied by 1H NMR.
ACCESSION NUMBER: 1988:423356 CAPLUS
DOCUMENT NUMBER: 109:23356
TITLE: Interactions of organic substrates with 30- and 36-membered ring peptides containing (2S,3'S)-2-(2'-oxo-3'-methylpiperazin-1'-yl)propanoic acid and sarcosine
AUTHOR(S): Kojima, Yoshitane; Yamashita, Tetsushi; Shibata, Kozo; Ohsuka, Akio
CORPORATE SOURCE: Fac. Sci., Osaka City Univ., Osaka, 558, Japan
SOURCE: Polymer Journal (Tokyo, Japan) (1987), 19(10), 1221-3
CODEN: POLJB8; ISSN: 0032-3896
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 114967-10-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 114967-10-1 CAPLUS
CN 1-Piperazineacetamide, N-[2-[4-[2-[[2-[4-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-methyl-2-oxoethyl]-2-methyl-3-oxo-1-piperazinyl]-2-oxoethyl]methylamino]-1-methyl-2-oxoethyl]-2-methyl-3-oxo-1-piperazinyl]-2-oxoethyl]-N,α,3-trimethyl-4-[[methyl[2-[3-methyl-4-[(methylamino)acetyl]-2-oxo-1-piperazinyl]-1-oxopropyl]amino]acetyl]-2-oxo-, [3S-[1[R*[R*[R*[R*(R*)]]]],3R*,4[R*(R*)]]]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

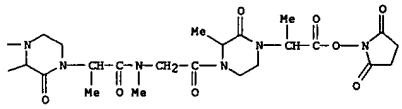
CRN 114967-09-8
CMF C48 H73 N13 O15

L7 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



CM 2

CRN 76-05-1
CMF C2 H F3 O2

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L2              STRUCTURE UPLOADED
L3            2 S L1
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L5            1 S L2
L6          152 S L2 FULL

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L8           52 S L6
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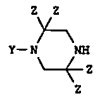
L8 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB Isotopically enriched N-substituted piperazines (I) or salts thereof, comprising one or more heavy atom isotopes (Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or fluorine atoms; Z = independently H, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H or F atoms, a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms), or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group; wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked hydrogen or fluorine atoms; wherein the N-methylpiperazine is isotopically enriched with either of 13C and/or 15N) are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like (no data). Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.

ACCESSION NUMBER: 2005:592130 CAPLUS
DOCUMENT NUMBER: 143:115574
TITLE: Preparation of isotopically enriched N-substituted piperazines
INVENTOR(S): Pappin, Darryl J. C.; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO

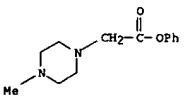
L8 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148773	A1	20050707	US 2004-751388	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

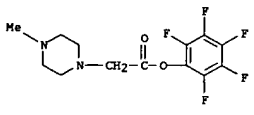
PRIORITY APPLN. INFO.:		
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:115574
IT 856187-95-6, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazines as isobaric
labeling reagents)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



IT 857027-10-2P 857503-00-5P 857503-01-6P
857503-03-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazines as isobaric
labeling reagents)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA

L8 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INDEX NAME)



RN 857503-00-5 CAPLUS
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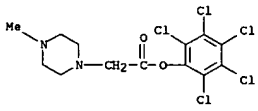
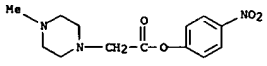
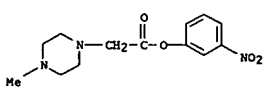


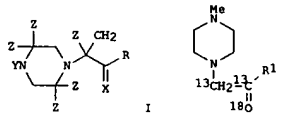
RN 857503-01-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 857503-03-8 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 3-nitrophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB In some embodiments, this invention pertains to active esters of N-substituted piperazine acetic acid I (R = leaving group; X = O, S; Y = C1-C6 alkyl, C1-C6 alkyl ether; Z = H, 2H, F, Cl, Br, iodide, amino acid side chain, C1-C6 alkyl, C1-C6 alkyl ether), including isotopically enriched versions thereof. In some embodiments, this invention pertains to methods for the preparation of active esters of N-substituted piperazine acetic acid, including isotopically enriched versions thereof. For example, the isotopically labeled N-methylpiperazine II (R1 = 18OH) reacted with the trifluoroacetic acid ester of N-hydroxysuccinimide to give the succinate II (R1 = OR2, R2 = succinimido).

ACCESSION NUMBER: 2005:592129 CAPLUS
DOCUMENT NUMBER: 143:97398
TITLE: Preparation of active esters of N-substituted piperazine acetic acids, including isotopically enriched versions
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148771	A1	20050707	US 2004-751354	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

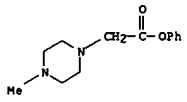
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:		
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105

L8 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

	US 2004-751388	A	20040105
	US 2004-822639	A	20040412
	US 2004-852730	A	20040524
	WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:97398
IT 856187-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of active esters of N-substituted piperazine acetic acids and
their labeled derivs.)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:592027 CAPLUS
DOCUMENT NUMBER: 143:93642
TITLE: Mixtures of isobarically labeled analytes and fragments ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 751,353.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005147985	A1	20050707	US 2004-822639	20040412
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005148087	A1	20050707	US 2004-852730	20040524
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

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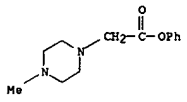
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

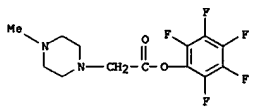
US 2004-751353	A2	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A2	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:93642
IT 856187-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

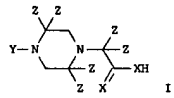
L8 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 857027-10-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
GI



AB Isotopically enriched N-substituted piperazine-1-acetic acids (I) or salts thereof, comprising one or more heavy atom isotopes [X = O, S; Y = straight chain or branched C1-6 alkyl or C1-6 alkyl ether group wherein the carbon atoms of the alkyl group or alkyl ether group each independently comprise linked hydrogen, deuterium or F atoms; Z = independently H, deuterium, F, Cl, Br, iodine, an amino acid side chain, a straight chain or branched C1-6 alkyl group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms), a straight chain or branched C1-6 alkyl ether group that may optionally contain a substituted or unsubstituted aryl group wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms, or a straight chain or branched C1-6 alkoxy group that may optionally contain a substituted or unsubstituted aryl group (wherein the carbon atoms of the alkyl and aryl groups each independently comprise linked H, deuterium or F atoms)] are prepared N-substituted piperazines can be used as intermediates in the synthesis of N-substituted piperazine acetic acids which in turn can be used as intermediates in the synthesis of active esters of N-substituted piperazine acetic acid. The active esters of N-substituted piperazine acetic acid can be used as labeling reagents to prepare a set of isobaric labeling reagents. The set of isobaric labeling reagents can be used to label analytes such as peptides, proteins, amino acids, oligonucleotides, DNA, RNA, lipids, carbohydrates, steroids, small mols. and the like. Thus, to a stirring solution of 1.18 g (11.83 mmol) N-methylpiperazine in 15 mL toluene at room temperature was added 1 g (5.91 mmol) of Et bromoacetate-1,2-13C dropwise, over a period of 15 min. The reaction mixture was then heated in an oil bath at 90° for 4 h, cooled to room temperature, filtered to remove the off-white solid to give, after workup on the
combined filtrate and washings, 1.10 g (quant.) of 4-methylpiperazine-1-acetic acid Et ester-1,2-13C (II) as an off-white oil. II (1.1 g) was refluxed in water for 24 h to give 780 mg 4-methylpiperazine-1-acetic acid-1,2-13C.
ACCESSION NUMBER: 2005:588426 CAPLUS
DOCUMENT NUMBER: 143:115568
TITLE: Preparation of isotopically enriched N-substituted piperazine-1-acetic acids
INVENTOR(S): Dey, Subhakar; Pappin, Darryl J. C.; Purkayastha, Subhasish; Pillai, Sasi; Coull, James M.
PATENT ASSIGNEE(S): Applera Corp., USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

L8 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

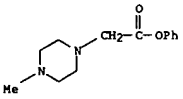
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148774	A1	20050707	US 2004-751387	20040105
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

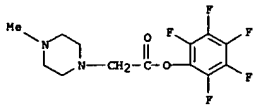
US 2004-751353	A	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:115568
IT 856187-95-6, 4-Methylpiperazine-1-acetic acid phenyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

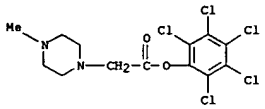


IT 857027-10-2P 857503-00-5P 857503-01-6P
857503-03-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of isotopically enriched N-substituted piperazine-1-acetic acids as isobaric labeling reagents)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

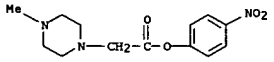
L8 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



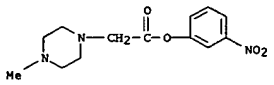
RN 857503-00-5 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentachlorophenyl ester (9CI) (CA INDEX NAME)



RN 857503-01-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)



RN 857503-03-8 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, 3-nitrophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588349 CAPLUS
DOCUMENT NUMBER: 143:112150
TITLE: Isobarically labeled analytes and fragment ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 88 pp., Cont.-in-part of U.S. Ser. No. 822,639.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

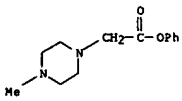
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005148087	A1	20050707	US 2004-852730	20040524
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

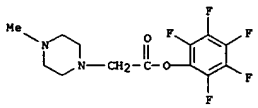
US 2004-751353	A2	20040105
US 2004-822639	A2	20040412
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

OTHER SOURCE(S): MARPAT 143:112150
IT 856187-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

IT 857027-10-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(isobarically labeled analytes and fragment ions derived therefrom)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 08 Jul 2005
AB This invention pertains to mixts. of isobarically labeled analytes and fragment ions thereof.
ACCESSION NUMBER: 2005:588336 CAPLUS
DOCUMENT NUMBER: 143:93635
TITLE: Mixtures of isobarically labeled analytes and fragments ions derived therefrom
INVENTOR(S): Pappin, Darryl J. C.; Purkayastha, Subhasish; Coull, James M.
PATENT ASSIGNEE(S): Applera Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005147982	A1	20050707	US 2004-751353	20040105
US 2005147985	A1	20050707	US 2004-822639	20040412
US 2005148087	A1	20050707	US 2004-852730	20040524
AU 2005205522	A1	20050728	AU 2005-205522	20050105
WO 2005068446	A1	20050728	WO 2005-US223	20050105

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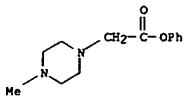
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

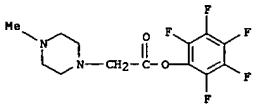
US 2004-751353	A2	20040105
US 2004-751354	A	20040105
US 2004-751387	A	20040105
US 2004-751388	A	20040105
US 2004-822639	A2	20040412
US 2004-852730	A	20040524
WO 2005-US223	W	20050105

IT 856187-95-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 856187-95-6 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, phenyl ester (9CI) (CA INDEX NAME)

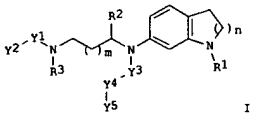
L8 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 857027-10-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mixts. of isobarically labeled analytes and fragments ions derived therefrom)
RN 857027-10-2 CAPLUS
CN 1-Piperazineacetic acid, 4-methyl-, pentafluorophenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 01 Apr 2005
GI



I

AB The title compds. (I) [wherein the fused pyrrolidine ring optionally contains a single carbon- carbon double bond or a single carbon ring member adjacent to the nitrogen is optionally :O substituted; n = 1, 2; m = 0,1, 2; Y1 = each C0-5 alkylene, alkenylene, alkynylene, or acylene -CH(CONRfRg)-, -CH(CO2C1-4 alkyl)- (where Rf, Rg = H or C1-4 alkyl); Y2 = H, Ph, C4-8 cycloalkyl, or C4-8 cycloalkenyl, wherein each ring optionally substituted; Y3 = -CH2-, carbonyl or sulfone; Y4 = (un)substituted C2-7 alkyl, C2-7 alkenyl, C2-7 alkynyl or C3-7 cycloalkyl; Y5 = each (un)substituted Ph, furanyl, thiophenyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, dioxolanyl, oxazolyl, thiazolyl, imidazolyl, imidazolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, oxadiazolyl, triazolyl, thiadiazolyl, pyranyl, pyridyl, piperidinyl, dioxanyl, morpholinyl, dithianyl, thiomorpholinyl, pyridazinyl, pyrimidinyl, pyrazinyl, piperazinyl, naphthalenyl, quinolonyl, purinyl, indolyl, benzofuranyl; R1 = H CORa, SO2Ra (where Ra = H, each (un)substituted C1-5 alkyl, C1-5 alkenyl, C1-5 alkynyl, or C1-5 acyl); R2, R3 = H, each (un)substituted C1-5 alkyl, C1-5 alkenyl, or C1-5 alkynyl, or R2 and R3 may be taken together with the nitrogen of R3 attachment to form piperidine or pyrrolidine or azepine] and enantiomers, diastereomers, hydrates, solvates and pharmaceutically acceptable salts, esters and amides thereof are prepared These compds. are novel non-peptidic NPY Y2 receptor inhibitors and useful in treating or preventing anxiolytic disorders or depression, injured mammalian nerve tissue, conditions responsive to treatment through administration of a neurotrophic factor, neurol. disorders, bone loss, substance related disorders, obesity, or an obesity-related disorder. They are also useful in modulating endocrine functions, particularly endocrine functions controlled by the pituitary and hypothalamic glands, and are therefore useful in the treatment or prevention of inovulation and infertility. Thus, to a solution of 1-[6-(1-benzylpiperidin-4-ylamino)-2,3-dihydroindol-1-yl]ethanone > (250 mg, 0.72 mmol) in CH2C12 (10 mL) was added cinnamoyl chloride (160 mg, 0.93 mmol) and triethylamine (TEA, 0.30 mL, 2.2 mmol). The mixture was stirred at 25° for 16 h to give, after purification by preparative TLC (PTLC, 20% EtOAc/CH2Cl2) to give 290 mg (85%) trans-N-(1-acetyl-2,3-dihydro-1H-indol-6-yl)-N-(1-benzylpiperidin-4-yl)-3-phenylacrylamide (II). II and trans-N-(1-acetyl-2,3-dihydro-1H-indol-6-yl]-3-(3-cyanophenyl)-N-[1-(2-cyclopentylethyl)piperidin-4-yl]acrylamide in vitro inhibited the binding of {125I]PYY to KAN-Ts endogenously expressing Y2 receptor with IC50 4.0 and 0.1 μM, resp.
ACCESSION NUMBER: 2005:283204 CAPLUS
DOCUMENT NUMBER: 142:355173
TITLE: Preparation of 6-aminoindole and 7-amino-1,2,3,4-tetrahydroquinoline derivatives as non-peptidic neuropeptide Y (NPY) Y2 receptor inhibitors

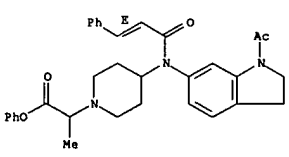
L8 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
INVENTOR(S): Carruthers, Nicholas I.; Chai, Wenying; Dax, Scott L.; Jablonowski, Jill A.; Li, Xiaobing; Lovenberg, Timothy W.; Murray, William V.; Rudolph, Dale A.; Seierstad, Mark; Youngman, Mark A.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 34 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005070534	A1	20050331	US 2004-949055	20040924
WO 2005030754	A1	20050407	WO 2004-US31378	20040924

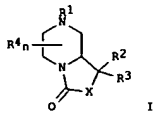
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-505462P P 20030924
OTHER SOURCE(S): MARPAT 142:355173
IT 848951-91-7P, trans-[4-[(1-Acetyl-2,3-dihydro-1H-indol-6-yl)(3-phenylacryloyl)amino]piperidin-1-yl]phenylacetic acid methyl ester
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 6-aminoindole and 7-amino-1,2,3,4-tetrahydroquinoline derivs. as non-peptidic neuropeptide Y (NPY) Y2 receptor inhibitors)
RN 848951-91-7 CAPLUS
CN 1-Piperidineacetic acid, 4-[(1-acetyl-2,3-dihydro-1H-indol-6-yl)[(2E)-1-oxo-3-phenyl-2-propenyl]amino]-α-methyl-, phenyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L8 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 11 Mar 2005
GI



I

AB Title compds. represented by the formula I [wherein R1 = acyl; R2 = H, (un)substituted alkyl, heterocyclic ring; R3, R4 = independently (un)substituted alkyl, heterocyclic ring; n = 0-4; X = O, S, or (un)substituted N; and pharmaceutically acceptable salts thereof] were prepared as G protein-coupled receptors TGR23 ligand antagonists. For example, II, I (R1 = Boc, R2 = R3 = Ph, R4 = H, X = O), was given in a multi-step synthesis starting from Me 2-piperazinecarboxylate dihydrochloride. Selected I showed inhibition of human TGR23-2 ligand with IC50 values of less than 100 nm, and inhibition of human rectal cancer cell LS 174T. Thus, I and their pharmaceutical compns. are useful as TGR23 antagonists for the prevention and treatment of cancers, Alzheimer's disease, dementia, and etc..

ACCESSION NUMBER: 2005:219798 CAPLUS
DOCUMENT NUMBER: 142:298136
TITLE: Preparation of oxazolo[3,4-a]pyrazine derivatives as TGR23 ligand antagonists
INVENTOR(S): Fukatsu, Kohji; Nakayama, Yutaka; Tarui, Naoki; Mori, Masaaki; Matsumoto, Hirokazu; Kurasawa, Osamu; Banno, Hiroshi
PATENT ASSIGNEE(S): Takeda Pharmaceutical Company Limited, Japan
SOURCE: PCT Int. Appl., 281 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

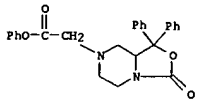
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005021555	A1	20050310	WO 2004-JP12683	20040826
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				

L8 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2005306839	A2	20051104	JP 2004-247166	20040826
EP 1661898	A1	20060531	EP 2004-772639	20040826
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				

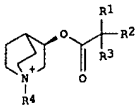
PRIORITY APPLN. INFO.:
JP 2003-306054 A 20030829
JP 2004-93606 A 20040326
WO 2004-JP12683 W 20040826

OTHER SOURCE(S): MARPAT 142:298136
IT 847556-46-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxazolo[3,4-a]pyrazine derivs. as TGR23 ligand antagonists)
RN 847556-46-1 CAPLUS
CN 3H-Oxazolo[3,4-a]pyrazine-7(1H)-acetic acid, tetrahydro-3-oxo-1,1-diphenyl-, phenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 98 THERE ARE 98 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 Nov 2004
GI



I

AB Compds., I (R1, R3 = C3-C15 carbocyclic, or heterocycle; R2 = H, halogen, OH, C1-8 alkoxy, or C1-8 alkyl; R4 = C1-8 alkyl, amine, amide, ester, ether, etc.), in salt or zwitterionic form, are prepared for the treatment of conditions that are mediated by the muscarinic M3 receptor. Thus, to a solution of hydroxydiphenylacetic acid (R)-(1-azabicyclo[2.2.2]oct-3-yl) ester in DMF is added 3-aminopropyl bromide to give I (R1, R3 = Ph, R2 = OH, R4 = CH2CH2Ch2NH2).

ACCESSION NUMBER: 2004:965247 CAPLUS
DOCUMENT NUMBER: 141:395704
TITLE: Preparation of quinuclidine salts for the treatment of diseases mediated by the muscarinic M3 receptor
INVENTOR(S): Collingwood, Stephen Paul; Cox, Brian; Baettig, Urs; Bhalay, Gurdip; Devereux, Nicholas James
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE: PCT Int. Appl., 115 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004096800	A2	20041111	WO 2004-EP4605	20040430
WO 2004096800	A3	20050106		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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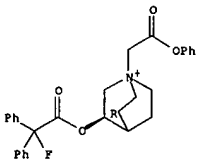
AU 2004234069	A1	20041111	AU 2004-234069	20040430
CA 2523436	AA	20041111	CA 2004-2523436	20040430
EP 1631569	A2	20060308	EP 2004-730519	20040430
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
BR 2004010238	A	20060516	BR 2004-10238	20040430
CN 1784400	A	20060607	CN 2004-80011886	20040430
NO 2005005688	A	20060109	NO 2005-5688	20051201

L8 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PRIORITY APPLN. INFO.:		GB 2003-10232	A 20030502
		GB 2003-24887	A 20031024
		WO 2004-EP4605	W 20040430

OTHER SOURCE(S): MARPAT 141:395704
IT 787626-47-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 1-aza-bicyclo[2.2.2]oct-3-yl esters for the treatment of conditions mediated by the muscarinic M3 receptor)
RN 787626-47-5 CAPLUS
CN 1-Azoniabicyclo[2.2.2]octane, 3-[(fluorodiphenylacetyl)oxy]-1-(2-oxo-2-phenoxyethyl)-, bromide, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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*L8 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 21 Nov 2003
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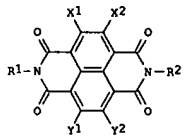


I

AB Title compds. I (R1, R2 = H, alkyl, cycloalkyl, heterocyclyl, etc; X1, X2, Y1, Y2 = H, halo, etc.) are prepared When employed alone, such a compound is useful as an agent against Helicobacter. When employed as a combined drug, it can remarkably lessen side effects occurring in treating digestive ulcer, etc. These compds. or compns. can specifically injure and remove Helicobacter to thereby effectively treat digestive diseases (for example, gastric ulcer, duodenal ulcer, gastritis and gastric cancer).

ACCESSION NUMBER: 2003:913165 CAPLUS
DOCUMENT NUMBER: 139:381472
TITLE: Preparation of naphthaldiimide derivatives as anti-Helicobacter agents
INVENTOR(S): Sugimori, Giichi; Masui, Moriyasu; Nishida, Kuniyoshi; Hasegawa, Yasushi; Kobayashi, Naotake
PATENT ASSIGNEE(S): Shionogi & Co., Ltd., Japan
SOURCE: PCT Int. Appl., 157 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

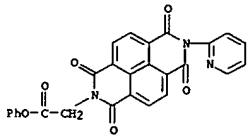
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003095453	A1	20031120	WO 2003-JP5795	20030508

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

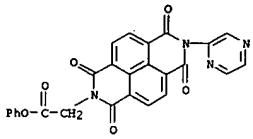
L8 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AU 2003235908 A1 20031111 AU 2003-235908 20030508
PRIORITY APPLN. INFO.: JP 2002-137845 A 20020513
WO 2003-JP5795 W 20030508
OTHER SOURCE(S): MARPAT 139:381472

IT 625085-54-3P 625085-80-5P
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of naphthaldiimide derivs. as anti-Helicobacter agents)
RN 625085-54-3 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, phenyl ester (9CI) (CA INDEX NAME)

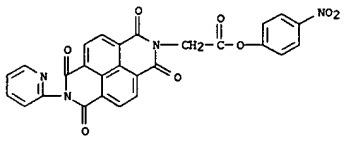


RN 625085-80-5 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-pyrazinyl-, phenyl ester (9CI) (CA INDEX NAME)

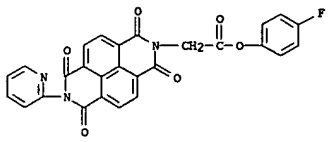


IT 625085-55-4P 625085-56-5P 625085-60-1P
625085-95-2P 625086-11-5P 625086-13-7P
625086-14-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of naphthaldiimide derivs. as anti-Helicobacter agents)
RN 625085-55-4 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

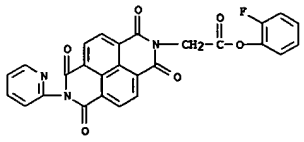
L8 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 625085-56-5 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, 4-fluorophenyl ester (9CI) (CA INDEX NAME)

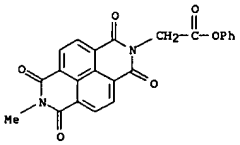


RN 625085-60-1 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, 2-fluorophenyl ester (9CI) (CA INDEX NAME)

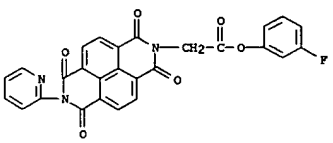


RN 625085-95-2 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-7-methyl-1,3,6,8-tetraoxo-, phenyl ester (9CI) (CA INDEX NAME)

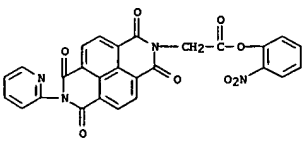
L8 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 625086-11-5 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, 3-fluorophenyl ester (9CI) (CA INDEX NAME)

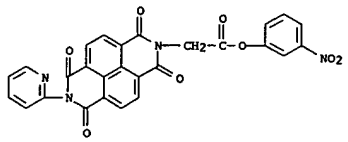


RN 625086-13-7 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, 2-nitrophenyl ester (9CI) (CA INDEX NAME)



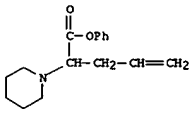
RN 625086-14-8 CAPLUS
CN Benzo[lmn][3,8]phenanthroline-2(1H)-acetic acid, 3,6,7,8-tetrahydro-1,3,6,8-tetraoxo-7-(2-pyridinyl)-, 3-nitrophenyl ester (9CI) (CA INDEX NAME)

* L8 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



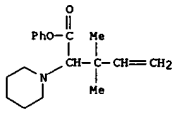
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 17 Nov 2003
AB Ammonium salts containing side by side with β,γ-unsatd. aryl-, benzyl- or phenylethyloxycarbonylmethyl groups under the action of sodium phenolates or alcoholates are subjected to 3,2-sigmatropic rearrangement to afford α-dialkylaminopent-5-enoic esters. Similarly reacts under the same conditions dimethylfurfurylphenyloxycarbonylmethylammonium chloride to afford exceptionally the Sommelet rearrangement product - NN-dimethyl-β-(α-methylfuryl)glycin Ph ether. Stevens rearrangement of ammonium salts containing phenylethyloxycarbonylmethyl, and as a migrating group butyn-2-yl or 3-chlorobuten-2-yl group leads the same product - 2-dimethylamino-3-methyl-2,4-pentadienoic phenylethyl ester, which when treated with a diluted hydrochloric acid results in 3-methyl-2-oxo-3-pentenoic phenylethyl ester. The research showed that the nature of the basic agent and the solvent does not essentially affect the procedure and yields of Stevens rearrangement products. Study of antimicrobial activity of some synthesized salts showed that their 3% aqueous
solns. exhibit a bactericidal effect on standard strains Escherichia coli (str. 1257) and Staphylococcus aureus (str. 906) depending on their chemical structure.
ACCESSION NUMBER: 2003:893585 CAPLUS
DOCUMENT NUMBER: 141:23239
TITLE: Stevens rearrangement of ammonium salts containing β,γ-unsaturated and aryl-, benzyl- or phenylethoxycarbonylmethyl groups
AUTHOR(S): Avakinyants, S. A.; Babakhanyan, A. V.; Akopyan, Sh. F.; Kocharyan, S. T.
CORPORATE SOURCE: Arm. Gos. Pedagog. Univ. im. H. Abovyan, Yerevan, Armenia
SOURCE: Hayastani Kimiakan Handes (2003), 56(3), 43-51
CODEN: KZARF3; ISSN: 1561-4190
PUBLISHER: Izdatel'stvo Gitutyun NAN Respubliki Armenii
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 141:23239
IT 697794-07-3P 697794-09-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Stevens rearrangement of ammonium salts containing β,γ-unsatd. and aryl-, benzyl- or phenylethoxycarbonylmethyl groups)
RN 697794-07-3 CAPLUS
CN 1-Piperidineacetic acid, α-2-propenyl-, phenyl ester (9CI) (CA INDEX NAME)

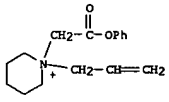


RN 697794-09-5 CAPLUS

L8 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 1-Piperidineacetic acid, α-(1,1-dimethyl-2-propenyl)-, phenyl ester (9CI) (CA INDEX NAME)

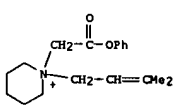


IT 697794-06-2 697794-08-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(Stevens rearrangement of; Stevens rearrangement of ammonium salts containing β,γ-unsatd. and aryl-, benzyl- or phenylethoxycarbonylmethyl groups)
RN 697794-06-2 CAPLUS
CN Piperidinium, 1-(2-oxo-2-phenoxyethyl)-1-(2-propenyl)-, chloride (9CI) (CA INDEX NAME)



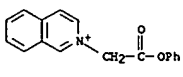
● Cl⁻

RN 697794-08-4 CAPLUS
CN Piperidinium, 1-(3-methyl-2-butenyl)-1-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L8 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 27 May 2003
AB We studied the inhibiting effect and properties of adsorption layers formed by mols. of aryloxy-carbonyl-methyl-isoquinoline chlorides on iron surface. The compds. with alkyl chains having 6-18 carbon atoms differ in the inhibiting effect: the compds. with 10 carbon atoms in alkylphenol group provide better performance. Decaphenoxy-carbonylmethyl-isoquinoline chloride having the best performance characteristics was selected as an active base for the corrosion inhibitor of SNPCH brand. Some threshold concentration of isoquinoline chloride (c>15 mg/L) has to be increased to have
guaranteed performance. The influence of solution concentration on inhibiting
effect may be attributed to the specific layer formation and surface-active nature of mols. Decaphenoxy-carbonyl-methyl-isoquinoline chloride appeared to affect noticeably the kinetics of cathode process of oxidant reduction in corrosive medium. Anal. of chrono-potentiograms of corrosion process in the solns. containing decaphenoxy-carbonyl-methyl-isoquinoline chloride is given. Well regulated membranous coatings of isoquinoline chloride having high anticorrosive effect form in corrosive medium. Dynamics of coating formation on metal surface is shown. The laboratory exptl. data are compared with the results of the bench and pilot tests of the corrosion inhibitor carried out in the oil fields of West Siberia and Ural-Volga region.
ACCESSION NUMBER: 2003:400358 CAPLUS
DOCUMENT NUMBER: 139:136645
TITLE: Study of mechanism of heterocyclic nitrogen-containing corrosion inhibitors
AUTHOR(S): Ugryumov, O. V.; Lebedev, N. A.; Varnavskaya, O. A.; Ivshin, Y. V.
CORPORATE SOURCE: Research Department for Development of Demulsifiers and Corrosion Inhibitors, NIIneftepromchim, Kazan, Russia
SOURCE: Progress in Mining and Oilfield Chemistry (2002), 4, 239-248
CODEN: PMOCBM; ISSN: 1585-1176
PUBLISHER: Akademiai Kiado
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 565418-55-5
RL: TEM (Technical or engineered material use); USES (Uses)
(p-alkyl derivs.; mechanism of heterocyclic nitrogen-containing corrosion inhibitors on iron surface in oil fields of West Siberia and Ural-Volga region)
RN 565418-55-5 CAPLUS
CN Isoquinolinium, 2-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)



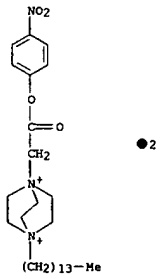
● Cl⁻

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

* L8 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 02 Aug 2002
AB Artificial RNases of the ABLkCm series were synthesized. They consist of a lipophilic alkyl radical (Et, n-C14H29, or n-C15H31) [Acy], an "RNA-binding domain" [Vcy] (bisquaternary salt of 1,4-diazabicyclo[2.2.2]octane), a "catalytic domain" [Scy]m [histamine ([Scy]1) or histidine ([Scy]3) residue], and a "linker" Lk that joins the "domains" B and Cm [here, k is the number of methylene units (one or three) in the linker]. The effect of the "domain structure" on the catalytic properties of the chemical RNases was analyzed using seven compds. of this series (ABL1C1, ABL3C1, ABL3C3, AC1, AB, BL2, and BL3C3). The catalytic activity of the compds. was assessed in the reaction of hydrolysis of the in vitro transcripts of human tRNALys and yeast tRNAAsp under physiol. conditions. It was shown that only chemical RNases that involve all the fragments of the ABLkCm construct can hydrolyze the substrate tRNA at a high rate (90% of tRNA is hydrolyzed for 10 h at 37°[Scy]). The activity of the compds. is largely determined by the presence of a long lipophilic radical linked to 1,4-diazabicyclo[2.2.2]octane and a long linker, which joins the RNA-hydrolyzing and RNA-binding domains. The results indicate an important role of hydrophobic interactions in the acceleration of the RNA hydrolysis reaction.
ACCESSION NUMBER: 2002:575812 CAPLUS
DOCUMENT NUMBER: 137:381573
TITLE: Chemical Ribonucleases: 4.1 An Analysis of the Domain Structure of Chemical Ribonucleases Based on 1,4-Diazabicyclo[2.2.2]octane
AUTHOR(S): Konevetz, D. A.; Mironova, N. L.; Beck, I. E.; Zenkova, M. A.; Shishkin, G. V.; Vlassov, V. V.; Silnikov, V. N.
CORPORATE SOURCE: Novosibirsk Institute of Bioorganic Chemistry, Russian Academy of Sciences, Siberian Branch, Novosibirsk, 630090, Russia
SOURCE: Russian Journal of Bioorganic Chemistry (Translation of Bioorganicheskaya Khimiya) (2002), 28(4), 331-341
CODEN: RJBCET; ISSN: 1068-1620
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:381573
IT 475661-85-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(all domains of chemical RNase are required for efficient tRNA hydrolysis)
RN 475661-85-9 CAPLUS
CN 1,4-Diazoniabicyclo[2.2.2]octane, 1-[2-(4-nitrophenoxy)-2-oxoethyl]-4-tetradecyl-, dibromide (9CI) (CA INDEX NAME)

L8 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



●2 Br⁻

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Jul 2002
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A peptide nucleic acid (PNA) monomer represented by the following general formula A-(CH2)nCO-B [I; wherein A = Q or Q1 (wherein X = OH, Z = O; X = NH2, Z = H2N+; or X = NMe2, Z = Me2N+), Q2, Q3, Q4 (wherein R = hydrogen, NO2, NH2, NHCbz, bromine, fluorine, chlorine, or SO3Na2), Q5, 3-(4-dimethylaminophenylazo)phenyl, 4-(4-dimethylaminophenylazo)phenylsulfonylamino, 2-(4-hydroxyphenylazo)benzoylamino, 5-dimethylaminonaphthalenesulfonylamino, 1-pyrenecarbonyl, 1-pyrenylmethyl, 1-pyrenesulfonylamino, 6,7,8-trimethyl-1,3-dioxo-2,5-dihydro-2,4-diazaphenazin-2-yl, 4-methylcoumarin-7-ylaminocarbonyl, 4-trifluoromethylcoumarin-7-ylaminocarbonyl, 4-methyl-2-oxo-1,2-dihydroquinoin-7-ylaminocarbonyl, 2-oxo-1,2-dihydroquinoin-3-ylaminocarbonyl, etc.; B is OH, pentafluorophenyloxy, succinimidyloxy, N-carboxylmethyl-N-[2-(tert-butoxycarbonylamino)ethyl]amino; n = an integer of 1 to 4] is prepared A PNA monomer I [A, N = same as above; B = N-carboxylmethyl-N-[2-(tert-butoxycarbonylamino)ethyl]amino] is prepared by amidation of an active ester I (A, n = same as above; B = pentafluorophenyloxy, succinimidyloxy) with tert-butoxycarbonylaminoethylamine or an ω-amino acid derivative, in particular 2-[N-[2-(tert-butoxycarbonylamino)ethyl]amino]acetic acid (II). This process is convenient for the preparation of a photofunctional PNA monomer
which is unstable under alkali condition. Thus, to a solution of 100 mg 2-(5,7,8-trimethyl-1,3-dioxo-2,5-dihydro-2,4-diazaphenazin-2-yl)acetic acid and 70.2 mg pentafluorophenol in 10 mL DMF was added 73.2 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride (EDC) at 0° and stirred at 0° for 1 h and at room temperature for 12 h to give 85% 2,3,4,5,6-pentafluorophenyl 2-(5,7,8-trimethyl-1,3-dioxo-2,5-dihydro-2,4-diazaphenazin-2-yl)acetate (III). To a solution of the active ester III (100 mg) and 45.4 mg II in 10 mL DMF was added 36.3 μL diisopropylethylamine and stirred at room temperature for 15 h to give 85% 2-[N-[2-(tert-butoxycarbonylamino)ethyl]-2-[(5,7,8-trimethyl-1,3-dioxo-2,5-dihydro-2,4-diazaphenazin-2-yl)acetyl]amino]acetic acid.
ACCESSION NUMBER: 2002:504749 CAPLUS
DOCUMENT NUMBER: 137:79227
TITLE: Novel functional peptide nucleic acid monomer and process for producing the same
INVENTOR(S): Ikeda, Hisafumi; Saito, Isao; Kitagawa, Fumihiko
PATENT ASSIGNEE(S): Applied Biosystems Japan Ltd., Japan
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051797	A1	20020704	WO 2001-JP8120	20010919
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

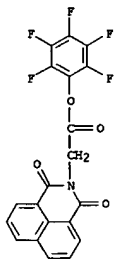
L8 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

EP 1357112 A1 20031029 EP 2001-970133 20010919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR
US 2004101839 A1 20040527 US 2003-250592 20031224
PRIORITY APPLN. INFO.: JP 2000-394669 A 20001226
WO 2001-JP8120 W 20010919

OTHER SOURCE(S): CASREACT 137:79227; MARPAT 137:79227

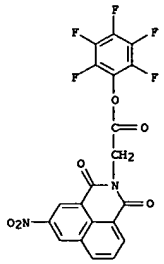
IT 439913-28-7P, [1,3-Dioxo-1H,3H-benz[de]isoquinolin-2-yl]acetic acid pentafluorophenyl ester 439913-30-1P, [5-Nitro-1,3-dioxo-1H,3H-benz[de]isoquinolin-2-yl]acetic acid pentafluorophenyl ester 439913-33-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel functional peptide nucleic acid monomers by amidation
of active esters with α-[N-{β-(tert-butoxycarbonylamino)ethyl}amino]acetic acid.)

RN 439913-28-7 CAPLUS
CN 1H-Benz[de]isoquinoline-2(3H)-acetic acid, 1,3-dioxo-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

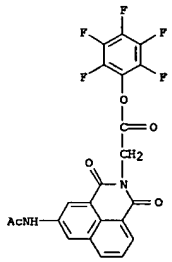


RN 439913-30-1 CAPLUS
CN 1H-Benz[de]isoquinoline-2(3H)-acetic acid, 5-nitro-1,3-dioxo-, pentafluorophenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 439913-33-4 CAPLUS
CN 1H-Benz[de]isoquinoline-2(3H)-acetic acid, 5-(acetylamino)-1,3-dioxo-, pentafluorophenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 19 Mar 2002
AB Methods are disclosed for the synthesis of the iodinated halogenides of quaternary ammonium salts (Markush included). Compds. showed different pharmacol. activity such as tuberculostatic, antiulcer, antiviral, anthelmintic, at low levels of toxicity. The invention also describes iodinated quaternary ammonium halogenide-containing pharmaceutical compns. Synthesis of compds. is included.

ACCESSION NUMBER: 2002:198055 CAPLUS
DOCUMENT NUMBER: 136:241695
TITLE: Preparation, pharmaceutical compositions, and pharmacological activity of iodinated quaternary ammonium halogenides
INVENTOR(S): Pyshchev, A. I.; Konstantinchenko, A. A.; Zusman, A. I.
PATENT ASSIGNEE(S): Russia
SOURCE: Russ., No pp. given
CODEN: RUXXE7
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2149866	C1	20000527	RU 1998-106094	19980326

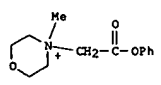
PRIORITY APPLN. INFO.: RU 1998-106094 19980326
OTHER SOURCE(S): CASREACT 136:241695; MARPAT 136:241695

IT 404824-50-6P
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(iodinated quaternary ammonium halogenide preparation, pharmaceutical compns., and pharmacol. activity)

RN 404824-50-6 CAPLUS
CN Morpholinium, 4-methyl-4-(2-oxo-2-phenoxyethyl)-, (triiodide) (9CI) (CA INDEX NAME)

CM 1

CRN 404824-49-3
CMF C13 H18 N O3

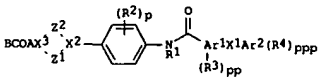


CM 2

CRN 14900-04-0
CMF I3

L8 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L8 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 15 Mar 2002
GI



I

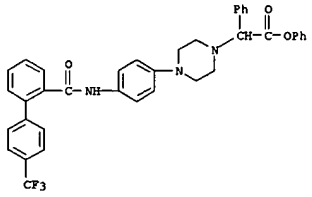
AB Title compds. [I; Z1 = (CH2)n, CH2CH2O; n = 1-3; Z2 = (CH2)m; m = 1, 2; X1 = O, CH2, CO, NH, CH2O, CH2S, bond; X2, X3 = CH, N, C; R1 = H, alkyl; Ar1, Ar2 = (substituted) Ph, naphthalenyl, pyridinyl, pyrazinyl, pyrimidinyl, pyridazinyl, triazinyl, triazolyl, imidazolyl, pyrazolyl, thiazolyl, isothiazolyl, oxazolyl, pyrrolyl, furyl, thienyl; R2, R3 = alkyl, alkoxy, halo, CF3; R4 = alkyl, alkoxy, halo, OH, SH, cyano, NO2, alkylthio, polyhaloalkyl, amino, alkylamino, dialkylamino; p, pp = 0-2; ppp = 0-3; X1, R4 taken together with Ar1 and Ar2 to which they are attached = fluoren-1-yl, fluoren-4-yl; A = alkanediyl substituted with 1-2 aryl, heteroaryl, cycloalkyl; when X3 = CH, A may also = N substituted with H, alkyl, aryl, heteroaryl, acylalkyl, heteroarylalkyl, cycloalkyl; B = H, alkyl, aralkyl, heteroarylalkyl, (substituted) aryl, heteroaryl, etc.], and N-oxides thereof, were prepared Thus, 4'-trifluoromethylbiphenyl-2-carboxylic acid was stirred 2 h with (COCl)2 in CH2Cl2 containing DMF; the resulting mixture was added to a mixture prepared from 4-(4-aminophenyl)-α-Ph-N-(2,2,2-trifluoroethyl)-1-piperazineacetamide (preparation given) and Et3N
in CH2Cl2 under ice/salt cooling followed by stirring and reflux for 2 days to give N-[4-[4-[2-oxo-1-phenyl-2-[(2,2,2-trifluoroethyl)amino]ethyl]-1-piperazinyl]phenyl]-4'-(trifluoromethyl)[1,1'-biphenyl]-2-carboxamide. The latter inhibited microsomal triglyceride transfer protein (MTP) activity with pIC50 = 7.864.

ACCESSION NUMBER: 2002:185098 CAPLUS
DOCUMENT NUMBER: 136:247608
TITLE: Preparation of piperidinyl-, piperazinyl-, and homopiperazinylpolyarylcarboxamides as lipid lowering agents
INVENTOR(S): Meerpoel, Lieven; Roevens, Peter Walter Maria; Backx, Leo Jacobus Jozef; Van der Veken, Louis Jozef Elisabeth; Viellevoye, Marcel
PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
SOURCE: PCT Int. Appl., 105 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020501	A2	20020314	WO 2001-EP9926	20010827
WO 2002020501	A3	20020627		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

L8 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



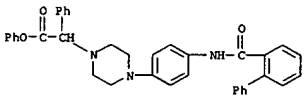
●2 HCl

L8 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2421228	AA	20020314	CA 2001-2421228	20010827
AU 2002010468	A5	20020322	AU 2002-10468	20010827
EP 1317431	A2	20030611	EP 2001-978313	20010827
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014045	A	20030701	BR 2001-14045	20010827
JP 2004508361	T2	20040318	JP 2002-525123	20010827
NZ 524525	A	20040326	NZ 2001-524525	20010827
EE 200300080	A	20050215	EE 2003-80	20010827
BG 107581	A	20031128	BG 2003-107581	20030221
US 2004014971	A1	20040122	US 2003-363665	20030228
US 6878724	B2	20050412		
ZA 2003001755	A	20040622	ZA 2003-1755	20030303
NO 2003001001	A	20030304	NO 2003-1001	20030304
HR 2003000156	A1	20030430	HR 2003-156	20030304
US 2005159402	A1	20050721	US 2005-29956	20050105

PRIORITY APPLN. INFO.: EP 2000-203067 A 20000904
WO 2001-EP9926 W 20010827
US 2003-363665 A3 20030228

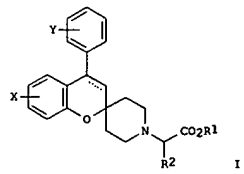
OTHER SOURCE(S): MARPAT 136:247608
IT 403989-08-2 403989-15-1
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of piperidinyl-, piperazinyl-, and homopiperazinylpolyarylcarboxamides as lipid lowering agents)
RN 403989-08-2 CAPLUS
CN 1-Piperazineacetic acid, 4-[4-[([1,1'-biphenyl]-2-ylcarbonyl)amino]phenyl]-α-phenyl-, phenyl ester, dihydrochloride (9CI) (CA INDEX NAME)



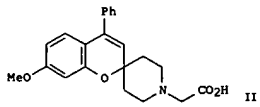
●2 HCl

RN 403989-15-1 CAPLUS
CN 1-Piperazineacetic acid, α-phenyl-4-[4-[[[4'-(trifluoromethyl)[1,1'-biphenyl]-2-yl]carbonyl]amino]phenyl]-, phenyl ester, dihydrochloride (9CI) (CA INDEX NAME)

L8 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 27 May 2001
GI



I



II

AB The title compds. [I; Y = 1-4 substituents selected from H, halo, alkyl, etc.; or Y = a fused aryl; X = 1-3 substituents selected from H, halo, OH, etc.; R1 = H, alkyl, aryl; R2 = H, alkyl] and their pharmaceutically acceptable salts which selectively inhibit the glycine transport by the human GlyT-1b transporter as compared to the human GlyT-2 transporter, and therefore are useful in the treatment of CNS disorders, were prepared E.g., a multi-step synthesis of II.HCl was described. Biol. data for compds. I were given.

ACCESSION NUMBER: 2001:380589 CAPLUS
DOCUMENT NUMBER: 134:366809
TITLE: Preparation of spiro[2H-1-benzopyran-2,4'-piperidine] derivatives as glycine transport inhibitors
INVENTOR(S): Gibson, Samuel George; Miller, David John
PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.
SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001036423	A1	20010525	WO 2000-EP11351	20001113

W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,

L8 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2389491	AA	20010525	CA 2000-2389491		20001113
AU 2001015219	A5	20010530	AU 2001-15219		20001113
AU 779518	B2	20050127			
BR 2000015586	A	20020709	BR 2000-15586		20001113
EP 1232160	A1	20020821	EP 2000-977546		20001113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
JP 2003527340	T2	20030916	JP 2001-538912		20001113
NZ 518671	A	20031031	NZ 2000-518671		20001113
CZ 293920	B6	20040818	CZ 2002-1724		20001113
RU 2250211	C2	20050420	RU 2002-115862		20001113
ZA 2002003320	A	20030827	ZA 2002-3320		20020425
NO 2002002320	A	20020515	NO 2002-2320		20020515
US 6645973	B1	20031111	US 2002-130557		20020517
US 2004029904	A1	20040212	US 2003-637681		20030808
PRIORITY APPLN. INFO.:			EP 1999-309137	A	19991117
			WO 2000-EP11351	W	20001113
			US 2002-130557	A3	20020517

OTHER SOURCE(S): MARPAT 134:366809

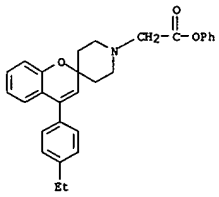
IT 340267-49-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of spiro[2H-1-benzopyran-2,4'-piperidine] derivs. as glycine transport inhibitors)

RN 340267-49-4 CAPLUS

CN Spiro[2H-1-benzopyran-2,4'-piperidine]-1'-acetic acid, 4-(4-ethylphenyl)-, phenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN

ED Entered STN: 13 Dec 2000

AB On the basis of imidazole and bisquaternary salts of 1,4-diazabicyclo[2.2.2]octane, a number of highly effective catalysts of the nDm series (here, n is the number of pos. charges at neutral pH values and m is the digital code of the catalytically active fragment: 1, histamine, and 2, histidine Me ester) were synthesized for the cleavage of phosphodiester bonds in ribonucleic acids. A general method for the synthesis of chemical RNases was suggested, which helps vary both the number of pos. charges in their RNA-binding domain and the catalytic center. By the example of hydrolysis under physiol. conditions of the in vitro transcript of tRNALys from human mitochondria, it was shown that the RNA cleavage rate with the nDm conjugates increases approx. 30-fold along with the increase in the number of pos. charges from two to four.

ACCESSION NUMBER: 2000:871429 CAPLUS

DOCUMENT NUMBER: 134:189912

TITLE: Chemical ribonucleases: 3. The synthesis of organic catalysts for the phosphodiester bond hydrolysis on the basis of quaternary salts of 1,4-diazabicyclo[2.2.2]octane

AUTHOR(S): Konevetz, D. A.; Beck, I. E.; Sil'nikov, V. N.; Zenkova, M. A.; Shishkin, G. V.

CORPORATE SOURCE: Novosibirsk Institute of Bioorganic Chemistry, Siberian Division, Russian Academy of Sciences, Novosibirsk, 630090, Russia

SOURCE: Russian Journal of Bioorganic Chemistry (Translation of Bioorganicheskaya Khimiya) (2000), 26(11), 765-773
CODEN: RJBCET; ISSN: 1068-1620

PUBLISHER: MAIK Nauka/Interperiodica

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:189912

IT 327189-89-9P 327189-91-3P 327189-96-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of artificial RNases for phosphodiester bond hydrolysis of RNA

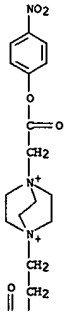
on basis of quaternary salts of 1,4-diazabicyclo[2.2.2]octane)

RN 327189-89-9 CAPLUS

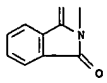
CN 1,4-Diazoniabicyclo[2.2.2]octane, 1-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl]-4-[2-(4-nitrophenoxy)-2-oxoethyl]-, dibromide (9CI) (CA INDEX NAME)

L8 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A

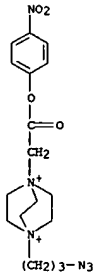


●2 Br⁻

RN 327189-91-3 CAPLUS

CN 1,4-Diazoniabicyclo[2.2.2]octane, 1-(3-azidopropyl)-4-[2-(4-nitrophenoxy)-2-oxoethyl]-, bromide chloride (9CI) (CA INDEX NAME)

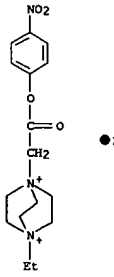
L8 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Br⁻ ● Cl⁻

RN 327189-96-8 CAPLUS

CN 1,4-Diazoniabicyclo[2.2.2]octane, 1-ethyl-4-[2-(4-nitrophenoxy)-2-oxoethyl]-, dibromide (9CI) (CA INDEX NAME)

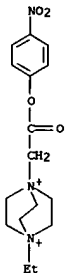


●2 Br⁻

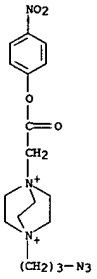
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 18 Oct 2000
AB A procedure was proposed allowing one to synthesize RNase mimics on the basis of conjugates of diazabicyclo[2.2.2]octane with imidazole bearing a varying number of pos. charges (nDm series, where n is the number of pos. charges at neutral pH, m is the code of an imidazole-containing fragment of the catalytic domain: 1, histamine; 2, histidine Me ester). The hydrolytic activity of six compds. of this series was studied in physiol. conditions using in vitro transcript of human mitochondrial tRNALys as a substrate. It was shown that the rate of RNA hydrolysis with nDm conjugates rises with an increase in the number of pos. charges: an approx. 30-fold acceleration of hydrolysis was observed with an increase in the total
charge of the construct from +2 to +4.
ACCESSION NUMBER: 2000:735652 CAPLUS
DOCUMENT NUMBER: 133:360397
TITLE: Chemical ribonucleases: 2. Design and hydrolytic activity of the ribonuclease mimics on the basis of diazabicyclo[2.2.2]octane with a differing number of positive charges
AUTHOR(S): Zenkova, M. A.; Vlassov, A. V.; Konevets, D. A.; Silnikov, V. N.; Giege, R.; Vlassov, V. V.
CORPORATE SOURCE: Novosibirsk Institute of Bioorganic Chemistry, Siberian Division, Russian Academy of Sciences, Novosibirsk, 630090, Russia
SOURCE: Russian Journal of Bioorganic Chemistry (Translation of Bioorganicheskaya Khimiya) (2000), 26(9), 610-615
CODEN: RJBCET; ISSN: 1068-1620
PUBLISHER: MAIK Nauka/Interperiodica
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 307305-05-1P 307305-06-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(design and hydrolytic activity of RNase mimics based on diazabicyclo[2.2.2]octane and containing various number of pos. charges)
RN 307305-05-1 CAPLUS
CN 1,4-Diazoniabicyclo[2.2.2]octane, 1-ethyl-4-[2-(4-nitrophenoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)

L8 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

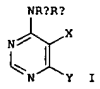


RN 307305-06-2 CAPLUS
CN 1,4-Diazoniabicyclo[2.2.2]octane, 1-(3-azidopropyl)-4-[2-(4-nitrophenoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Sep 2000
GI



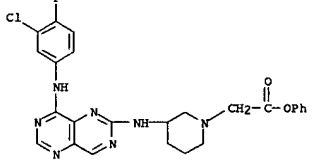
AB Title compds. [I; Ra = H, alkyl; Rb = (substituted) Ph, PhCH2, PhCH2CH2; XY = N:C(AB)CH:CH, CH:NC(AB):CH, N:C(AB)N:CH, etc.; A = alkyleneoxy, cycloalkyleneoxy, (substituted) alkyleneimino, cycloalkyleneimino, azetidinylene, piperidinylene, piperazinylene, etc.; B = R6O2CA1NR5, etc.; R5 = H, (substituted) alkyl, cycloalkyl, cycloalkylalkyl; A1 = (substituted) alkylene; R6 = H, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, cycloalkylalkyl, etc.], were prepared Thus, 4-[(3-chloro-4-fluorophenyl)amino]-6-[[1-[(methoxycarbonyl)methyl]piperidin-4-yl]amino]pyrimido[5,4-d]pyrimidine was stirred with aqueous NaOH in THF to give 96% 4-[(3-chloro-4-fluorophenyl)amino]-6-[[1-[(carboxymethyl)methyl]piperidin-4-yl]amino]pyrimido[5,4-d]pyrimidine. I inhibited EGF-dependent proliferation of F/L-HERc cells with IC50 = 7-2510 nM.
ACCESSION NUMBER: 2000:666735 CAPLUS
DOCUMENT NUMBER: 133:238019
TITLE: Preparation of aminopyrimidopyrimidines and related compounds as inhibitors of epidermal growth factor receptor-mediated cell proliferation.
INVENTOR(S): Himmelsbach, Frank; Langkopf, Elke; Blech, Stefan; Jung, Birgit; Metz, Thomas; Solca, Flavio
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
SOURCE: PCT Int. Appl., 137 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000055162	A2	20000921	WO 2000-EP2229	20000314
WO 2000055162	A3	20001228		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19911510	A1	20000921	DE 1999-19911510	19990315
CA 2361770	AA	20000921	CA 2000-2361770	20000314
EP 1163242	A2	20011219	EP 2000-920498	20000314
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

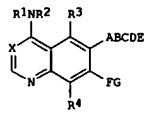
L8 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

JP 2002539214	T2	20021119	JP 2000-605591	20000314
US 2002082420	A1	20020627	US 2001-933597	20010821
PRIORITY APPLN. INFO.:			DE 1999-19911510	A 19990315
			WO 2000-EP2229	W 20000314

OTHER SOURCE(S): MARPAT 133:238019
IT 294181-23-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminopyrimidopyrimidines and related compds. as inhibitors
of epidermal growth factor receptor-mediated cell proliferation)
RN 294181-23-0 CAPLUS
CN 1-Piperidineacetic acid, 3-[[8-[(3-chloro-4-fluorophenyl)amino]pyrimido[5,4-d]pyrimidin-2-yl]amino]-, phenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 10 Sep 2000
GI



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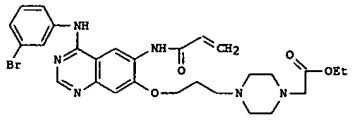
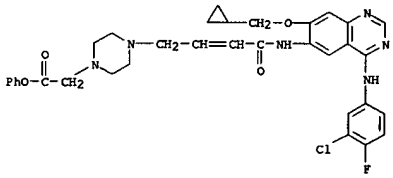


II

AB Title compds. [I; R1 = H, C1-C4-alkyl; R2 = (un)substituted Ph, benzyl, 1-phenylethyl; R3, R4 independently = H, F, Cl, CH3O, CH3OCH2, (CH3)2NCH2, (CH3CH2)2NCH2, pyrrolidino, piperidino, morpholino; X = C(CN), N; A = O, NH, (C1-C4)-alkylN; B = CO, SO2; C = 1,3-allenylene, 1,1-vinylene, 1,2-vinylene, 1,3-butadien-1,4-ylene, with CH3, CF3 substitution; D = alkylene, CO-alkylene, SO2-alkylene; CO, SO2; E = HOCO(CH2)nNR5, (HO)2P(:O)(CH2)nNR5; n = 1-6; R5 = H, alkyl], tautomers, stereoisomers, and physiol. acceptable salts are prepared and having valuable pharmacol. properties, particularly an inhibiting effect on signal transduction mediated by tyrosine kinases. Title compds. are useful for treating tumoral diseases, diseases of the lungs and respiratory tract. Thus, the title compound II was prepared and tested by Cell Titer 96TM Aqueous Nonradioactive Cell Proliferation Assay.

ACCESSION NUMBER: 2000:628125 CAPLUS
DOCUMENT NUMBER: 133:207919
TITLE: Preparation of 4-amino-quinazoline and quinoline derivatives having an inhibitory effect on signal transduction mediated by tyrosine kinases useful for treating tumoral diseases, lung and respiratory tract diseases
INVENTOR(S): Himmelsbach, Frank; Langkopf, Elke; Jung, Birgit; Metz, Thomas; Solca, Flavio; Blech, Stefan
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
SOURCE: PCT Int. Appl., 232 pp.

L8 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

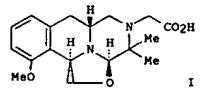
L8 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000051991	A1	20000908	WO 2000-EP1496	20000224
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19908567	A1	20000831	DE 1999-19908567	19990227
DE 19911366	A1	20000921	DE 1999-19911366	19990315
DE 19928306	A1	20001228	DE 1999-19928306	19990621
DE 19954816	A1	20010517	DE 1999-19954816	19991113
CA 2361174	AA	20000908	CA 2000-2361174	20000224
EP 1157011	A1	20011128	EP 2000-910695	20000224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000008524	A	20011218	BR 2000-8524	20000224
JP 2002538145	T2	20021112	JP 2000-602218	20000224
JP 3751201	B2	20060301		
EE 200100449	A	20021216	EE 2001-449	20000224
BG 105765	A	20020329	BG 2001-105765	20010801
HR 2001000617	A1	20021031	HR 2001-617	20010823
NO 2001004114	A	20011015	NO 2001-4114	20010824
US 6972288	B1	20051206	US 2002-914323	20020206

PRIORITY APPLN. INFO.:
DE 1999-19908567 A 19990227
DE 1999-19911366 A 19990315
DE 1999-19928306 A 19990621
US 1999-149329P P 19990817
DE 1999-19954816 A 19991113
WO 2000-EP1496 W 20000224

OTHER SOURCE(S): MARPAT 133:207919
IT 290303-06-9P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoquinazoline and aminoquinoline derivs. having an inhibitory effect on signal transduction mediated by tyrosine kinases useful for treating tumoral diseases, lung and respiratory tract diseases)
RN 290303-06-9 CAPLUS
CN 1-Piperazineacetic acid, 4-[4-[[4-[(3-chloro-4-fluorophenyl)amino]-7-(cyclopropylmethoxy)-6-quinazolinyl]amino]-4-oxo-2-butenyl]-, phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 09 Mar 2000
GI



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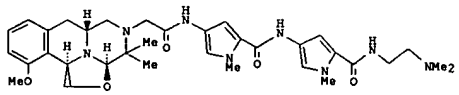


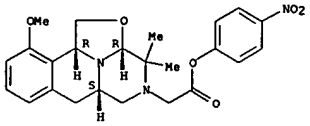
II

AB The efficient synthesis of a water-soluble C11a-epi-analog I of quinocarcin is described. This substance, and a netropsin amide conjugate II lack the capacity to inflict oxidative damage on DNA due to the stereoelectronic geometry of their oxazolidine nitrogen atoms. The capacity of these substances to alkylate DNA through the generation of an iminium species has been examined Both compds. were found to be unreactive as DNA alkylating agents. The results of this study are discussed in the context of previous proposals on the mode of action of this family of antitumor alkaloids.

ACCESSION NUMBER: 2000:157026 CAPLUS
DOCUMENT NUMBER: 133:4837
TITLE: Synthesis of a netropsin conjugate of a water-soluble epi-quinocarcin analogue: the importance of stereochemistry at nitrogen
AUTHOR(S): Herberich, B.; Scott, J. D.; Williams, R. M.
CORPORATE SOURCE: Department of Chemistry, Colorado State University, Fort Collins, CO, USA
SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(3), 523-532
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 165253-50-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of a netropsin conjugate of a water-soluble epi-quinocarcin analog and the importance of stereochem. at nitrogen)
RN 165253-50-9 CAPLUS
CN 2-Oxa-4,10c-diazaaceanthrylene-4(1H)-acetic acid, 2a,3,5,5a,6,10b-hexahydro-10-methoxy-3,3-dimethyl-, 4-nitrophenyl ester, (2aR,5aS,10bR)-rel- (9CI) (CA INDEX NAME)

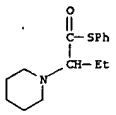
Relative stereochemistry.

* L8 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



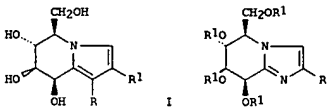
REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 31 May 1999
AB N,N-Disubstituted 2-aminoalk-2-enals react with alkyl- or aryl-thiols to give unexpected thioesters of α-amino acid in good yields. The same type of product is formed when substrate is treated with ethane-1,2-dithiol. The reaction proceeds via an intermediate 1,2-adduct which is transformed, after a 1,3-shift, into the final thioester.
ACCESSION NUMBER: 1999:333941 CAPLUS
DOCUMENT NUMBER: 131:170604
TITLE: New convenient access to thioesters of α-amino acids from N,N-disubstituted 2-aminoalk-2-enals
AUTHOR(S): Rulev, Alexandre Yu.; Larina, Lyudmila I.; Keiko, Natalia A.; Voronkov, Mikhail G.
CORPORATE SOURCE: Siberian Branch, Institute of Chemistry, Russian Academy of Sciences, Irkutsk, 664033, Russia
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1999), (11), 1567-1570
CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:170604
IT 238420-03-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of from N,N-disubstituted 2-aminoalk-2-enals reacted with thiols)
RN 238420-03-6 CAPLUS
CN 1-Piperidineethanethioic acid, α-ethyl-, S-phenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

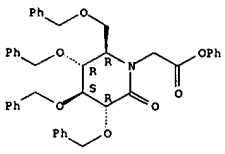
L8 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 05 Sep 1997
GI



AB In the presence of activating agents, the N-acylglycine I reacts with electrophilic alkynes via a munchnone (oxazolium-5-olate) to pyrrolopyridines (indolizines). Depending on the nature of the activating agent and the reaction temperature, the formation of the pyrroles was accompanied by partial epimerization to manno-configurated epimers. A gluco-configurated pyrrolopyridine was deprotected to tetrol I (R, R1 = CO2Me). Silylation of the latter, followed by reduction and desilylation, gave the hexol I (R, R1 = CH2OH). Cycloaddn. of the intermediary munchnone to 4-MeC6H4SO2CN yielded the imidazole II (R = 4-MeC6H4SO2, R1 = PhCH2; 53% yield), while cycloaddn. to PhOCN gave the phenoxyimidazole II (R = PhO, R1 = PhCH2) in low yields only. As expected, the deprotected pyrroles I (R = R1 = CO2Me, CH2OH; R = H, R1 = CO2Me; R = CO2Me, R1 = H) are weak inhibitors of retaining β-glucosidases, while II (R = 4-MeC6H4SO2, R1 = H) proved a good inhibitor of sweet-almond β-glucosidases and a powerful inhibitor of Caldocellum saccharolyticum β-glucosidase.
ACCESSION NUMBER: 1997:568920 CAPLUS
DOCUMENT NUMBER: 127:278174
TITLE: Synthesis via a carbohydrate-derived munchnone of pyrrolopyridines (indolizines) and imidazopyridines, and their evaluation as inhibitors of β-D-glucosidases
AUTHOR(S): Granier, Thierry; Gaiser, Florian; Hintermann, Lukas; Vasella, Andrea
CORPORATE SOURCE: Laboratorium Organische Chemie, Eidgenossische Technische Hochschule Zurich, Zurich, CH-8092, Switz.
SOURCE: Helvetica Chimica Acta (1997), 80(5), 1443-1456
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:278174
IT 196412-52-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and glucosidase inhibitory activity of carbohydrate-derived pyrrolo- and imidazopyridines)
RN 196412-52-9 CAPLUS
CN 1-Piperidineacetic acid, 2-oxo-3,4,5-tris(phenylmethoxy)-6-[(phenylmethoxy)methyl]-, phenyl ester, [3R-(3α,4β,5α,6.beta.)]- (9CI) (CA INDEX NAME)

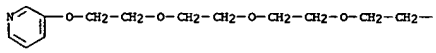
Absolute stereochemistry.

L8 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

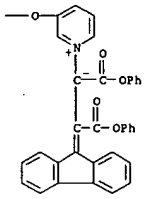


L8 ANSWER 25 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 24 Jul 1997
AB Photochromic dihydroindolizines linked to an anchor group allowing for supramol. interaction are described. Four classes of mols. containing different anchor groups and their supramol. interactions with ions and mols. are presented.
ACCESSION NUMBER: 1997:462292 CAPLUS
DOCUMENT NUMBER: 127:227210
TITLE: Supramolecular aggregates and ion-binding in photochromic molecules
AUTHOR(S): Durr, Heinz; Kranz, Carolin; Kilburg, Heike
CORPORATE SOURCE: Fachbereich 11.2, Universitat Saarlandes, Saarbrucken, 66041, Germany
SOURCE: Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (1997), 298, 365-372
CODEN: MCLCE9; ISSN: 1058-725X
PUBLISHER: Gordon & Breach
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 195044-51-0 195044-58-7
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(supramol. aggregates and ion-binding in photochromic mols.)
RN 195044-51-0 CAPLUS
CN Pyridinium, 3-[2-[2-[2-(3-pyridinyloxy)ethoxy]ethoxy]ethoxy]ethoxy]-, 2-(9H-fluoren-9-ylidene)-3-oxo-3-phenoxy-1-(phenoxycarbonyl)propylide (9CI) (CA INDEX NAME)

PAGE 1-A



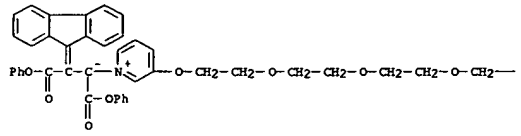
PAGE 1-B



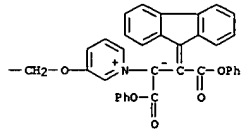
RN 195044-58-7 CAPLUS

L8 ANSWER 25 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Pyridinium, 3,3'-[oxybis(2,1-ethanediyloxy-2,1-ethanediyloxy)]bis-, bis[2-(9H-fluoren-9-ylidene)-3-oxo-3-phenoxy-1-(phenoxycarbonyl)propylide] (9CI) (CA INDEX NAME)

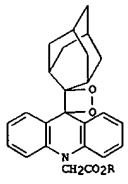
PAGE 1-A



PAGE 1-B



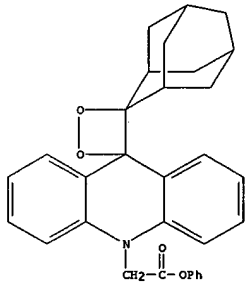
L8 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 14 Feb 1997
GI



I

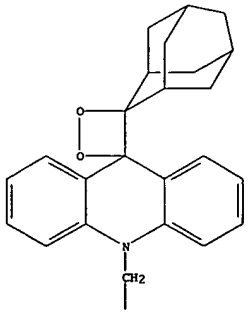
AB Novel dioxetane derivs. I [R = Et, CH2CCl3, (un)substituted Ph] with an acridane-10-acetate moiety were prepared and tested as potential chemiluminescent probes. The 10-acetate was found to play an important role both in stabilization and in base-mediated smooth degradation of the dioxetane ring.
ACCESSION NUMBER: 1997:106528 CAPLUS
DOCUMENT NUMBER: 126:212075
TITLE: Synthesis and chemiluminescent property of the novel 1,2-dioxetanes containing an acridane-10-acetate moiety as the luminophor and trigger unit
AUTHOR(S): Imanishi, Takeshi; Ueda, Yohko; Tainaka, Ryoh; Miyashita, Kazuyuki; Hoshino, Nobuhiro
CORPORATE SOURCE: Faculty Pharmaceutical Sciences, Osaka Univ., Suita, 565, Japan
SOURCE: Tetrahedron Letters (1997), 38(5), 841-844
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 178312-95-3P 178312-97-5P 188002-48-4P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(preparation, thermal stability, and chemiluminescence of 1,2-dioxetanes containing an acridane acetate moiety)
RN 178312-95-3 CAPLUS
CN Dispiro[acridine-9(10H),3'-[1,2]dioxetane-4',2''-tricyclo[3.3.1.13,7]decane]-10-acetic acid, phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



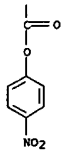
RN 178312-97-5 CAPLUS
CN Dispiro[acridine-9(10H),3'-[1,2]dioxetane-4',2''-tricyclo[3.3.1.13,7]decane]-10-acetic acid, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



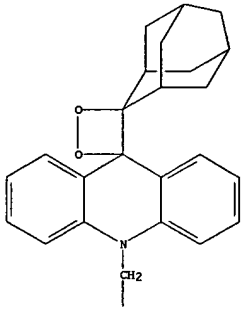
L8 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A



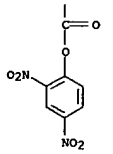
RN 188002-48-4 CAPLUS
CN Dispiro[acridine-9(10H),3'-[1,2]dioxetane-4',2''-tricyclo[3.3.1.13,7]decane]-10-acetic acid, 2,4-dinitrophenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

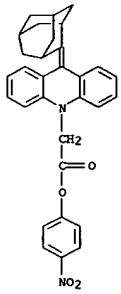


L8 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A

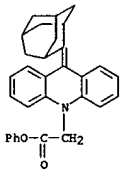


IT 178313-00-3P 178313-01-4P 188002-39-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, thermal stability, and chemiluminescence of 1,2-dioxetanes containing an acridane acetate moiety)
RN 178313-00-3 CAPLUS
CN 10(9H)-Acridineacetic acid, 9-tricyclo[3.3.1.13,7]decylidene-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

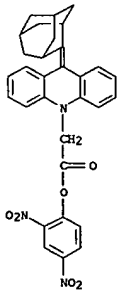


RN 178313-01-4 CAPLUS
CN 10(9H)-Acridineacetic acid, 9-tricyclo[3.3.1.13,7]decylidene-, phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

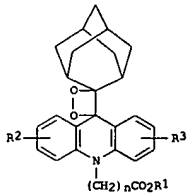


RN 188002-39-3 CAPLUS
CN 10(9H)-Acridineacetic acid, 9-tricyclo[3.3.1.13,7]decylidene-, 2,4-dinitrophenyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 Jul 1996
GI



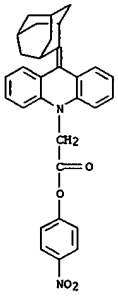
AB The title compds. I [n = 1 - 3; R1 = H, alkyl, etc.; R2, R3 = H, nitro, etc.] are prepared I [R2 = R3 = H; n = 1; R1 = 4-nitrophenyl] (II) (preparation
given) showed chemiluminescence. II showed good storage stability.

ACCESSION NUMBER: 1996:401584 CAPLUS
DOCUMENT NUMBER: 125:58346
TITLE: Preparation of acridine derivatives as chemiluminescent compounds
INVENTOR(S): Imanishi, Takeshi; Hoshino, Nobuhiro; Shimamoto, Kazutoshi
PATENT ASSIGNEE(S): Iatron Lab., Japan; Mitsubishi Chemical Yatron Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

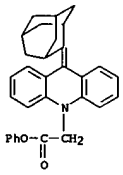
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08092254	A2	19960409	JP 1994-254730	19940923
JP 3551984	B2	20040811		
PRIORITY APPLN. INFO.:			JP 1994-254730	19940923

OTHER SOURCE(S): MARPAT 125:58346
IT 178313-00-3P 178313-01-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of acridine derivs. as chemiluminescent compds.)
RN 178313-00-3 CAPLUS
CN 10(9H)-Acridineacetic acid, 9-tricyclo[3.3.1.13,7]decylidene-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

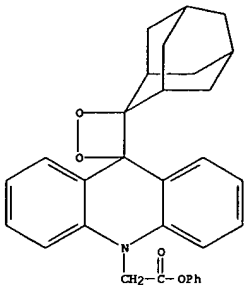


RN 178313-01-4 CAPLUS
CN 10(9H)-Acridineacetic acid, 9-tricyclo[3.3.1.13,7]decylidene-, phenyl ester (9CI) (CA INDEX NAME)



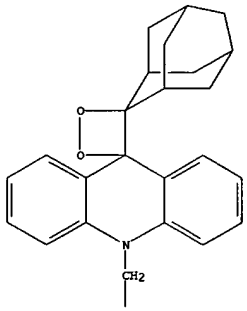
IT 178312-95-3P 178312-96-4P 178312-97-5P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of acridine derivs. as chemiluminescent compds.)
RN 178312-95-3 CAPLUS
CN Dispiro[acridine-9(10H),3'-[1,2]dioxetane-4',2''-tricyclo[3.3.1.13,7]decane]-10-acetic acid, phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



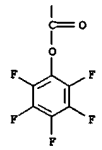
RN 178312-96-4 CAPLUS
CN Dispiro[acridine-9(10H),3'-[1,2]dioxetane-4',2''-tricyclo[3.3.1.13,7]decane]-10-acetic acid, pentafluorophenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



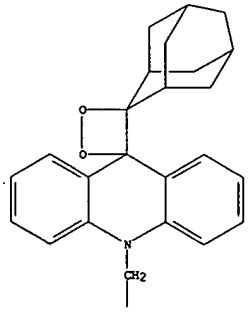
L8 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A



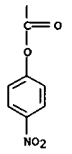
RN 178312-97-5 CAPLUS
CN Dispiro[acridine-9(10H),3'-[1,2]dioxetane-4',2''-tricyclo[3.3.1.13,7]decane]-10-acetic acid, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

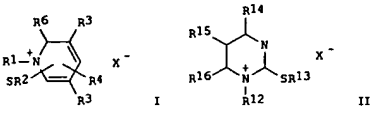


L8 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

PAGE 2-A



L8 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 17 Aug 1995
GI



I II

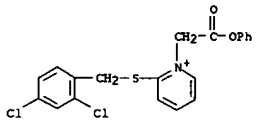
AB The compds. consist of I [R1 = (substituted) alkyl, (substituted) phenyl; R2 = (substituted) Ph, alkyl group having substituted C at α-position of S; R3, R4, R5, R6 = H, halo, alkyl, alkoxy, cyano, nitro, Ph, COOR7, COR8, OCOR9, CONR10R11 (R5 and R6 may form aromatic ring); X = organic or inorg. anionic residual group; R7, R8, R9, R10, R11 = H, alkyl, Ph, benzyl] or II [R12 = (substituted) alkyl; R13 = alkyl group having substituted C at α-position of S; R14, R15, R16 = H, nitro, Ph, COOR17, COR18, OCOR19; CONR20R21; X = organic or inorg. anionic residual group; R17, R18, R19, R20, R21 = H, alkyl, Ph, benzyl]. A composition containing ERL-4221 (epoxy resin) and N-cinnamyl-2-(ethoxycarbonylmethylthio)pyridinium hexfluoroantimonate was heated at 10°/min to give a cured resin with differential calorimetric peak temperature 159°.

ACCESSION NUMBER: 1995:740929 CAPLUS
DOCUMENT NUMBER: 123:145609
TITLE: Onium salt compounds for rapid curing of cationically polymerizable compounds and their use as polymerization initiators
INVENTOR(S): Takahashi, Eiji; Muramoto, Hiroo
PATENT ASSIGNEE(S): Nippon Soda Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07025852	A2	19950127	JP 1993-197030	19930714

PRIORITY APPLN. INFO.: JP 1993-197030 19930714
OTHER SOURCE(S): MARPAT 123:145609
IT 166440-19-3P 166889-00-5P
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(initiator; for rapid curing of cationically polymerizable compds.)
RN 166440-19-3 CAPLUS
CN Pyridinium, 2-[[(2,4-dichlorophenyl)methyl]thio]-1-(2-oxo-2-phenoxyethyl)-, bromide (9CI) (CA INDEX NAME)

L8 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

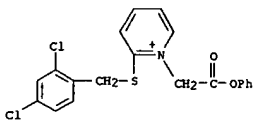


● Br⁻

RN 166889-00-5 CAPLUS
CN Pyridinium, 2-[[(2,4-dichlorophenyl)methyl]thio]-1-(2-oxo-2-phenoxyethyl)-, (OC-6-11)-hexafluoroantimonate(1-) (9CI) (CA INDEX NAME)

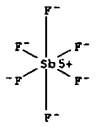
CM 1

CRN 166440-30-8
CMF C20 H16 Cl2 N O2 S



CM 2

CRN 17111-95-4
CMF F6 Sb
CCI CCS



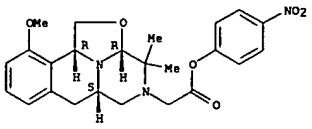
L8 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L8 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 09 Jun 1995
AB Quinocarcin is the simplest of the bioxalmycin/naphthyridinomycin/tetrazomine/saframycin class of antitumor antibiotics, which damage DNA in a process that is inhibited by superoxide dismutase (SOD). The oxazolidine moiety of this class of antitumor antibiotics undergoes a redox self-disproportionation reaction of the Cannizzaro type. The reaction is proposed to proceed via an intermediate carbon-centered radical, which then reduces mol. oxygen to give superoxide. We set out to determine whether the DNA-cleavage properties of these antitumor antibiotics could be retained in less complex analogs of quinocarcin. A totally synthetic, water-soluble analog of quinocarcin has been prepared This analog produced superoxide, but had considerably reduced ability to cleave supercoiled circular DNA compared to quinocarcin or tetrazomine. When conjugated to the DNA-binding mol. spermine, however, it cleaved DNA as effectively as quinocarcin at less than 1/10 the concentration A conjugate with netropsin displayed selective cleavage around the sequence 5'-d(ATTT)-3'. Mol. modeling of the interaction between the conjugate and DNA, together with the pattern of cleavage, indicates that a non-diffusable oxidant is involved in sequence-selective DNA cleavage. The spermine conjugate displayed weak antimicrobial activity. Knowledge of the stereoelectronic requirements for superoxide production by quinocarcin has allowed us to design a structurally less complex analog which has many of the same phys. properties, including water solubility, the ability to produce superoxide and the ability to cleave DNA. Covalently attaching known DNA-binding mols. to this analog gave a compound that produced sequence-specific DNA damage. Our results suggest that a mechanism other than superoxide production can mediate DNA damage by the netropsin conjugate.

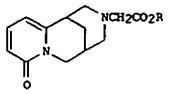
ACCESSION NUMBER: 1995:599848 CAPLUS
DOCUMENT NUMBER: 123:74302
TITLE: Netropsin and spermine conjugates of a water-soluble quinocarcin analog: Analysis of sequence-specific DNA interactions
AUTHOR(S): Flanagan, Mark E.; Rollins, Samuel B.; Williams, Robert M.
CORPORATE SOURCE: Department Chemistry, Colorado State University, Ft. Collins, CO, 80523, USA
SOURCE: Chemistry & Biology (1995), 2(3), 147-56
CODEN: CBOLE2; ISSN: 1074-5521
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 165253-50-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of netropsin and spermine conjugates of a water-soluble quinocarcin analog and anal. of sequence-specific DNA damage)
RN 165253-50-9 CAPLUS
CN 2-Oxa-4,10c-diazaaceanthrylene-4(1H)-acetic acid, 2a,3,5,5a,6,10b-hexahydro-10-methoxy-3,3-dimethyl-, 4-nitrophenyl ester, (2aR,5aS,10bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 26 Apr 1995
GI

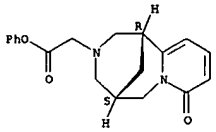


I

AB Title esters I (R = Me, Et, Pr, Bu, Ph) were prepared by reaction of cytisine with ClCH2CO2R in the presence of K2CO3. The oxalate salts of I were also prepared

ACCESSION NUMBER: 1995:510830 CAPLUS
DOCUMENT NUMBER: 123:56346
TITLE: Synthesis and structure of N-cytisinylacetic acid esters
AUTHOR(S): Nurkenov, O. A.; Gazaliev, A. M.; Zhakina, A. Kh.; Zhurinov, M. Zh.
CORPORATE SOURCE: Inst. Org. Sint. Uglekhim., Karaganda, Kazakhstan
SOURCE: Izvestiya Natsional'noi Akademii Nauk Respubliki Kazakhstan, Seriya Khimicheskaya (1994), (2), 74-7
CODEN: INRKES
PUBLISHER: Gylym
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 163778-14-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and conversion to oxalate salt)
RN 163778-14-1 CAPLUS
CN 1,5-Methano-2H-pyrido[1,2-a][1,5]diazocine-3(4H)-acetic acid, 1,5,6,8-tetrahydro-8-oxo-, phenyl ester, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



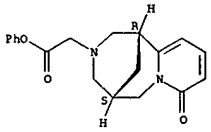
IT 163879-32-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 163879-32-1 CAPLUS
CN 1,5-Methano-2H-pyrido[1,2-a][1,5]diazocine-3(4H)-acetic acid,

L8 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
1,5,6,8-tetrahydro-8-oxo-, phenyl ester, (1R)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 163778-14-1
CMF C19 H20 N2 O3

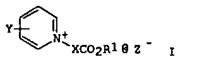
Absolute stereochemistry.



CM 2

CRN 144-62-7
CMF C2 H2 O4

L8 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 02 Oct 1993
GI



I

AB New electrostatog. toners and developers are provided containing novel charge
control agents comprising ester-containing quaternary pyridinium salts having
structure (I), wherein R1 is alkyl or aryl, X is -(CH2)n-, Y is H, alkyl, alkoxy or halogen, Z0 is an anion and n is an integer from 1 to 6. Such ester-containing quaternary pyridinium salts also cause toner particles containing
them to display lower fusing temps. and improved paper adhesion indexes.

ACCESSION NUMBER: 1993:549452 CAPLUS
DOCUMENT NUMBER: 119:149452
TITLE: Toners and developers containing ester-containing quaternary pyridinium salts as charge control agents
INVENTOR(S): Wilson, John Charles; Bermel, Alexandra DiLauro
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

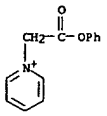
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9302397	A1	19930204	WO 1992-US5961	19920716
W: JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
EP 548348	A1	19930630	EP 1992-915992	19920716
EP 548348	B1	19960320		
R: BE, DE, FR, GB, NL				
JP 06501788	T2	19940224	JP 1993-502953	19920716
PRIORITY APPLN. INFO.:			US 1991-734354 A	19910718
			WO 1992-US5961 W	19920716

OTHER SOURCE(S): MARPAT 119:149452
IT 149639-25-8 149639-30-5
RL: USES (Uses)
(as charge control agent in electrostatog. developer)
RN 149639-25-8 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenoxyethyl)-, salt with 3-nitrobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

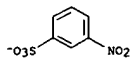
CRN 149639-24-7
CMF C13 H12 N O2

L8 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 2

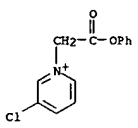
CRN 30904-40-6
CMF C6 H4 N O5 S



RN 149639-30-5 CAPLUS
CN Pyridinium, 3-chloro-1-(2-oxo-2-phenoxyethyl)-, tetraphenylborate(1-) (9CI) (CA INDEX NAME)

CM 1

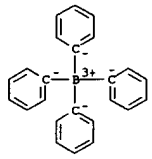
CRN 149639-29-2
CMF C13 H11 Cl N O2



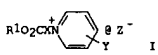
CM 2

CRN 4358-26-3
CMF C24 H20 B
CCI CCS

L8 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 18 Sep 1993
GI



AB The above salts are I [R1 = alkyl, aryl; X = C1-6-alkylene; Y = H, alkyl, alkoxy, halogen; Z- = anion]. The salts are used advantageously in charge control agents in electrophotog. toners and developers. The toner particles containing above salts have lower fusing temperature and improved paper adhesion indexes.

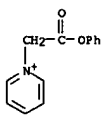
ACCESSION NUMBER: 1993:528375 CAPLUS
DOCUMENT NUMBER: 119:128375
TITLE: Ester-containing quaternary pyridinium salts
INVENTOR(S): Wilson, John Charles; Bermel, Alexandra DiLauro
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9302053	A1	19930204	WO 1992-US5966	19920716
W: JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
US 5196538	A	19930323	US 1991-734353	19910718
PRIORITY APPLN. INFO.:			US 1991-734353 A	19910718

OTHER SOURCE(S): MARPAT 119:128375
IT 149639-25-8 149639-30-5
RL: USES (Uses)
(as charge control agent for electrophotog. toners)
RN 149639-25-8 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenoxyethyl)-, salt with 3-nitrobenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

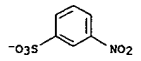
CRN 149639-24-7
CMF C13 H12 N O2



L8 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 2

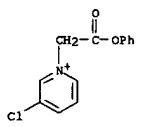
CRN 30904-40-6
CMF C6 H4 N O5 S



RN 149639-30-5 CAPLUS
CN Pyridinium, 3-chloro-1-(2-oxo-2-phenoxyethyl)-, tetraphenylborate(1-) (9CI) (CA INDEX NAME)

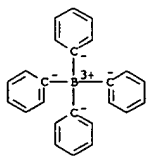
CM 1

CRN 149639-29-2
CMF C13 H11 Cl N O2



CM 2

CRN 4358-26-3
CMF C24 H20 B
CCI CCS

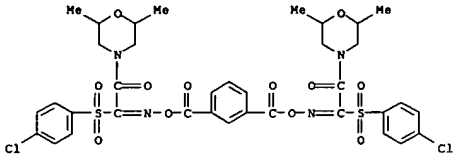


L8 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 16 Feb 1993
AB GXC:NOCOAQA1CO2N:CX1G1 [I; A, A1 = O, NH, CH2O, CH2CH2O, bond; G, G1 = CONR1R2, CO2R3, COR4, S(O)nR5, SO2NR1R2, cyano; X, X1 = SO2R6, Cl, Br; R1, R2 = H, C1-4 alkoxyalkyl; NR1R2 = (mon- or dimethyl)azetidino, -pyrrolidino, -piperidino, -homopiperidino, -morpholino; R3 = C1-4 alkyl, C1-4 haloalkyl, C2-4 alkoxyalkyl; R4, R5 = C1-4 alkyl, C1-4 haloalkyl, C2-4 alkoxyalkyl, (substituted) Ph; R6 = C1-6 alkyl, C1-6 haloalkyl, C2-6 alkoxyalkyl, (substituted) Ph, benzyl; Q = (substituted) C1-6 alkylene, C2-6 alkenylene, C2-6 alkynylene, (substituted) phenylene, -naphthylene, -cycloalkylene, -1-methylpyrrolylene, -1-methylimidazolylene, (substituted) 5-10 membered heteroarylene; n = 0-2; with provisos] were prepared as agrochem. fungicides. Thus, isophthaloyl chloride was added to a solution of Me2NCOC(:NOH)Cl in THF. Et3N in THF was added to this solution at
0° and the mixture was stirred for 5 h at room temperature to give I (G, G1 = CONMe2; X, X1 = Cl; Q = 1,3-phenylene; A, A1 = bond) (II). II as a 200 ppm foliar spray gave 100% control of Venturia inaequalis on apples, Puccinia recondita on wheat, Phytophthora infestans on tomatoes, and Plasmopara viticola on grapes.
ACCESSION NUMBER: 1993:59423 CAPLUS
DOCUMENT NUMBER: 118:59423
TITLE: Preparation of arylene bis(carbonyloxyaminocorbonylimi doyl chlorides) as agrochemical fungicides
INVENTOR(S): Drumm, Joseph Eugene, III
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 179 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9202491	A1	19920220	WO 1991-US5579	19910806
W: AU, BR, HU, JP, KR, SU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
AU 9183263	A1	19920302	AU 1991-83263	19910806
CN 1059713	A	19920325	CN 1991-108854	19910806
PRIORITY APPLN. INFO.:			US 1990-563839	A2 19900806
			WO 1991-US5579	A 19910806

OTHER SOURCE(S): MARPAT 118:59423
IT 142718-99-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. fungicide)
RN 142718-99-8 CAPLUS
CN Morpholine, 4,4'-[1,3-phenylenebis[carbonyloxynitrilo[2-[(4-chlorophenyl)sulfonyl]-1-oxo-2,1-ethanediyl]]]bis[2,6-dimethyl- (9CI) (CA INDEX NAME)

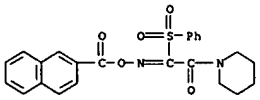
L8 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 34 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 28 Nov 1992
AB GC(:NOA)SO2R1 [I; G = C(:L)NR2R3, CO2R4, SO2NR2R3, S(O)mR5; L = O, S; A = H, CO2R6, CONHR7, CO(CH2)nR8, SO2R14; R1 = (substituted) C1-8 alkyl, C3-6 cycloalkyl, C1-2 alkyl substituted by Ph, naphthyl, heterocyclyl; (substituted) Ph, -naphthyl, -heterocyclyl; R2,R3 = H, C1-6 (halo)alkyl, C2-6 alkoxyalkyl, C3-4 alkenyl, C3-4 haloalkenyl; NR2R3 = (mono- or dimethyl) pyrrolidino, -piperidino, - morpholino; R4 = C1-8 alkyl, C1-8 haloalkyl, C3-6 alkoxyalkyl, C3-6 (halo)alkenyl; R5, R14 = C1-6 (halo)alkyl, C2-6 alkoxyalkyl, (substituted) Ph, -benzyl; R6 = (substituted) C1-6 alkyl, C3-6 cycloalkyl, C1-2 alkyl substituted by Ph or naphthyl, etc.; R7 = (substituted) Ph, -benzyl, -naphthalenyl, etc.; R8 = (substituted) Ph, -naphthyl, heterocyclyl; n, m = 0-2] were used prepared as agrochem. fungicides. Thus, Et chlorooximidoacetate and benzylmercaptan were condensed in the presence of Et3N to give Et 2-(benzylthio)-2-hydroxyiminoacetate. This was oxidized by potassium peroxymonosulfate to give I [G = CO2Et, A = H, R1 = CH2Ph]. Over 150 I were prepared and tested against a number of fungi, including Ventura inaequalis, Cercosporidium personatum, and Puccinia recondita.
ACCESSION NUMBER: 1992:612154 CAPLUS
DOCUMENT NUMBER: 117:212154
TITLE: Preparation of (arylsulfonyl)hydroxyiminodimethylaceta mides as agrochemical fungicides
INVENTOR(S): Brown, Richard James
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 95 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

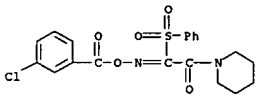
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9203050	A1	19920305	WO 1991-US5508	19910808
W: AU, BR, HU, JP, KR, SU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
AU 9184322	A1	19920317	AU 1991-84322	19910808
CN 1058880	A	19920226	CN 1991-105807	19910816
PRIORITY APPLN. INFO.:			US 1990-568485	A2 19900816
			WO 1991-US5508	A 19910808

OTHER SOURCE(S): MARPAT 117:212154
IT 141457-51-4P 141457-52-5P 141458-54-0P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. fungicide)
RN 141457-51-4 CAPLUS
CN Piperidine, 1-[[[(2-naphthalenylcarbonyl)oxy]imino](phenylsulfonyl)acetyl]- (9CI) (CA INDEX NAME)



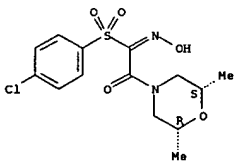
L8 ANSWER 34 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 141457-52-5 CAPLUS
CN Piperidine, 1-[[[(3-chlorobenzoyl)oxy]imino](phenylsulfonyl)acetyl]- (9CI) (CA INDEX NAME)

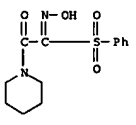


RN 141458-54-0 CAPLUS
CN Morpholine, 4-[[(4-chlorophenyl)sulfonyl](hydroxyimino)acetyl]-2,6-dimethyl-, cis- (9CI) (CA INDEX NAME)

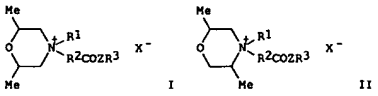
Relative stereochemistry.
Double bond geometry unknown.



IT 141458-56-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for agrochem. fungicides)
RN 141458-56-2 CAPLUS
CN Piperidine, 1-[(hydroxyimino)(phenylsulfonyl)acetyl]- (9CI) (CA INDEX NAME)



L8 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 25 Nov 1989
GI



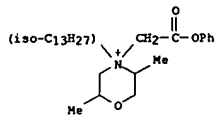
AB Mixts. of the title compds. I and II [R1 = C6-20; R2 = C1-6 alkylene; R3 = (un)substituted alkyl, alkenyl, cycloalkyl, etc.; Z = O, S; X- = anion] (cis and/or trans) are prepared as fungicides and plant growth regulators. The fungicidal activity is both curative and preventive. Many target fungal species and host plants are listed. A mixture of cis- and/or trans-2,5-dimethyl-N-isotridecylmorpholine and cis- and/or trans-2,6-dimethyl-N-isotridecylmorpholine was refluxed with ClCH2CO2Me in NaI-containing acetonitrile, to give I-II (R1 = isotridecyl, R2 = CH2, R3 = Me, Z = O, X = Cl).

ACCESSION NUMBER: 1989:589581 CAPLUS
DOCUMENT NUMBER: 111:189581
TITLE: Morpholinoalkylcarboxylates as plant growth regulators and fungicides
INVENTOR(S): Ballschuh, Detlef; Banasiak, Lothar; Gruenzel, Hermann; Kluge, Eberhard; Lyr, Horst; Ohme, Roland; Rusche, Jochen; Seibt, Horst; Spengler, Dieter; Stoeckel, Christian
PATENT ASSIGNEE(S): Akademie der Landwirtschaftwissenschaften der DDR, Institut fuer Pflanzenschutzforschung, Ger. Dem. Rep.
SOURCE: Ger. (East), 28 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 263688	A1	19890111	DD 1985-278326	19850705
PRIORITY APPLN. INFO.:			DD 1985-278326	19850705

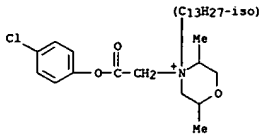
OTHER SOURCE(S): MARPAT 111:189581
IT 123322-73-6P 123322-74-7P 123322-75-8P
123322-76-9P 123322-78-1P 123340-63-6P
123340-64-7P 123340-65-8P 123340-67-0P
123360-39-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as fungicide and plant growth regulator)
RN 123322-73-6 CAPLUS
CN Morpholinium, 4-isotridecyl-2,5-dimethyl-4-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)

L8 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



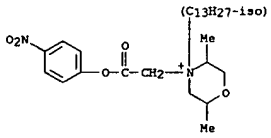
● Cl-

RN 123322-74-7 CAPLUS
CN Morpholinium, 4-[2-(4-chlorophenoxy)-2-oxoethyl]-4-isotridecyl-2,5-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl-

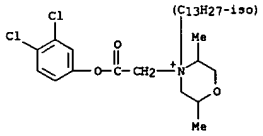
RN 123322-75-8 CAPLUS
CN Morpholinium, 4-isotridecyl-2,5-dimethyl-4-[2-(4-nitrophenoxy)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl-

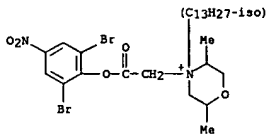
L8 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 123322-76-9 CAPLUS
CN Morpholinium, 4-[2-(3,4-dichlorophenoxy)-2-oxoethyl]-4-isotridecyl-2,5-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl-

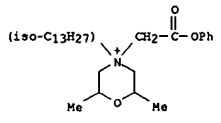
RN 123322-78-1 CAPLUS
CN Morpholinium, 4-[2-(2,6-dibromo-4-nitrophenoxy)-2-oxoethyl]-4-isotridecyl-2,5-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl-

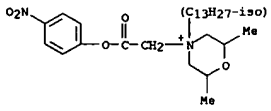
RN 123340-63-6 CAPLUS
CN Morpholinium, 4-isotridecyl-2,6-dimethyl-4-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)

L8 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



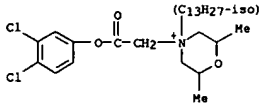
● Cl-

RN 123340-64-7 CAPLUS
CN Morpholinium, 4-isotridecyl-2,6-dimethyl-4-[2-(4-nitrophenoxy)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl-

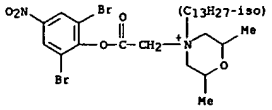
RN 123340-65-8 CAPLUS
CN Morpholinium, 4-[2-(3,4-dichlorophenoxy)-2-oxoethyl]-4-isotridecyl-2,6-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl-

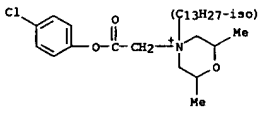
RN 123340-67-0 CAPLUS
CN Morpholinium, 4-[2-(2,6-dibromo-4-nitrophenoxy)-2-oxoethyl]-4-isotridecyl-2,6-dimethyl-, chloride (9CI) (CA INDEX NAME)

L8 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



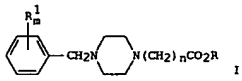
● Cl⁻

RN 123360-39-4 CAPLUS
CN Morpholinium, 4-[2-(4-chlorophenoxy)-2-oxoethyl]-4-isotridecyl-2,6-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

L8 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1989
GI



AB A series of 1-benzyl-4-piperazineacetates I (R = alkyl or aryl; R1 = H, Me, Cl, OMe; m = 1-3; n = 0-2) was synthesized and evaluated as antiulcer agents. Quant. structure-activity relationships (QSAR) analyses by using the ALS (adaptive least-squares) method were performed in each step to decrease the synthetic efforts. The QSAR for the esters is much the same as that for the previous examined amide derivs. The antiulcer activity of these compds. was considered to be based on the cytoprotective activity. The most active and the least toxic compds. were selected for further study.

ACCESSION NUMBER: 1989:165541 CAPLUS
DOCUMENT NUMBER: 110:165541
TITLE: Benzylpiperazine derivatives. X. Syntheses and structure-antiulcer activity relationship of 1-benzyl-4-piperazineacetic acid esters
AUTHOR(S): Ohtaka, Hiroshi; Yoshida, Kenji; Suzuki, Kenji; Shimohara, Koichi; Tajima, Shigeru; Ito, Keizo
CORPORATE SOURCE: Pharm. Res. Cent., Kanebo Ltd., Osaka, 534, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1988), 36(12), 4825-33
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:165541

IT 119929-56-5P 119950-59-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and ulcer-inhibiting activity of)

RN 119929-56-5 CAPLUS
CN 1-Piperazineacetic acid, 4-[(2,3,4-trimethoxyphenyl)methyl]-, 4-chlorophenyl ester, dihydrochloride (9CI) (CA INDEX NAME)

L8 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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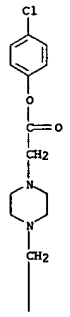
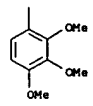


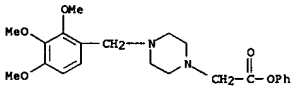
PAGE 2-A



●2 HCl

RN 119950-59-3 CAPLUS
CN 1-Piperazineacetic acid, 4-[(2,3,4-trimethoxyphenyl)methyl]-, phenyl ester, dihydrochloride (9CI) (CA INDEX NAME)

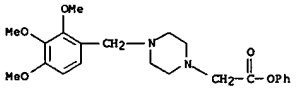
L8 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



●2 HCl

IT 119929-69-0 119929-72-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(ulcer-inhibiting activity of)

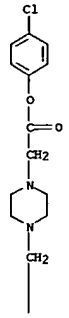
RN 119929-69-0 CAPLUS
CN 1-Piperazineacetic acid, 4-[(2,3,4-trimethoxyphenyl)methyl]-, phenyl ester (9CI) (CA INDEX NAME)



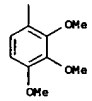
RN 119929-72-5 CAPLUS
CN 1-Piperazineacetic acid, 4-[(2,3,4-trimethoxyphenyl)methyl]-, 4-chlorophenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

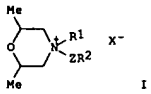
PAGE 1-A



PAGE 2-A



L8 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 15 May 1987
GI



I

AB The title compds. [I; R = C6-20 alkyl; R2 = R321CO, (un)substituted PhO; R3 = (halo)alkenyl, alkynyl, (un)substituted alkyl, cycloalkyl, aryl, aralkyl; X1 = anion of a nonphytotoxic acid; Z = O, S; Z1 = C1-6 alkylene; R3 and X- may be absent] were prepared as fungicides and plant growth regulators. A mixture of 30 g 4-isotridecyl-2,6-dimethylmorpholine and 10.9 g ClCH2CO2Me was refluxed 20 h in MeCN containing catalytic NaI to give 38 g I
(R1 = isotridecyl, R2 = CO2Me, X = Cl, Z = CH2)(II). At 10 μg/mL II gave 88% inhibition of growth of Botrytis cinerea. At 1000 mg/L II reduced the growth of cucumber plants by 32%.

ACCESSION NUMBER: 1987:156487 CAPLUS
DOCUMENT NUMBER: 106:156487
TITLE: Salts of morpholinocarboxylic esters and morpholinoalkyl phenyl ethers, processes for their preparation, and their use as fungicides and plant growth regulators.
INVENTOR(S): Banasiak, Lothar; Leuner, Brita; Lyr, Horst; Nega, Eva; Sunkel, Marianne
PATENT ASSIGNEE(S): Institut fuer Pflanzenschutzforschung Kleinmachnow, Ger. Dem. Rep.
SOURCE: Eur. Pat. Appl., 41 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

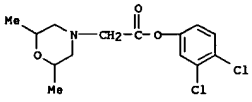
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 209763	A1	19870128	EP 1986-108916	19860701
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
DD 263685	A1	19890111	DD 1985-278323	19850705
DD 263687	A1	19890111	DD 1985-278325	19850705
AU 8659401	A1	19870108	AU 1986-59401	19860630
DK 8603151	A	19870106	DK 1986-3151	19860702
FI 8602851	A	19870106	FI 1986-2851	19860704
ZA 8605002	A	19870325	ZA 1986-5002	19860704
JP 62084065	A2	19870417	JP 1986-156349	19860704
HU 42288	A2	19870728	HU 1986-2826	19860704
HU 42286	A2	19870728	HU 1986-2827	19860704
ES 2001853	A6	19880701	ES 1986-125	19860704
PL 146362	B1	19890131	PL 1986-260474	19860704

L8 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

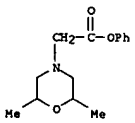
CS 264279	B2	19890613	CS 1986-5135	19860707
PRIORITY APPLN. INFO.:			DD 1985-278323	A 19850705
			DD 1985-278325	A 19850705

IT 107561-93-3DP, quaternary derivs. 107561-99-9DP, quaternary derivs. 107562-00-5DP, quaternary derivs. 107562-11-8DP, quaternary derivs. 107581-23-7DP, quaternary derivs.
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as fungicide and plant growth inhibitor)

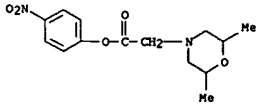
RN 107561-93-3 CAPLUS
CN 4-Morpholineacetic acid, 2,6-dimethyl-, 3,4-dichlorophenyl ester (9CI) (CA INDEX NAME)



RN 107561-99-9 CAPLUS
CN 4-Morpholineacetic acid, 2,6-dimethyl-, phenyl ester (9CI) (CA INDEX NAME)

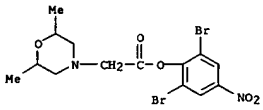


RN 107562-00-5 CAPLUS
CN 4-Morpholineacetic acid, 2,6-dimethyl-, 4-nitrophenyl ester (9CI) (CA INDEX NAME)

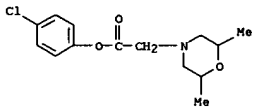


RN 107562-11-8 CAPLUS
CN 4-Morpholineacetic acid, 2,6-dimethyl-, 2,6-dibromo-4-nitrophenyl ester (9CI) (CA INDEX NAME)

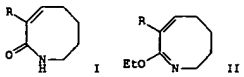
L8 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



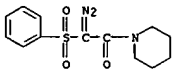
RN 107581-23-7 CAPLUS
CN 4-Morpholineacetic acid, 2,6-dimethyl-, 4-chlorophenyl ester (9CI) (CA INDEX NAME)



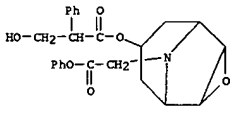
L8 ANSWER 38 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 24 Jan 1987
GI



AB Tetrahydroazocinones I (R = H, PhS, PhSO2) have been converted into the ethoxytetrahydroazocines II with Meerwein's reagent. Upon irradiation under mercury lamp at longer wavelengths (Pyrex vessels) these compds. are inert, but at shorter wavelengths (quartz vessels) polymeric materials form with no evidence of intramol. cyclization. Reaction of I with bases, and with Me3COCl lead to a variety of azocin-2(1H)-one derivs.
ACCESSION NUMBER: 1987:18338 CAPLUS
DOCUMENT NUMBER: 106:18338
TITLE: Further reactions in the tetrahydroazocin-2(1H)-one series
AUTHOR(S): Ridley, Damon D.; Simpson, Gregory W.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Sydney, 2006, Australia
SOURCE: Australian Journal of Chemistry (1986), 39(4), 687-98
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:18338
IT 105495-20-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)
RN 105495-20-3 CAPLUS
CN Piperidine, 1-[diazo(phenylsulfonyl)acetyl]- (9CI) (CA INDEX NAME)



L8 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● HCl

L8 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 14 Dec 1985
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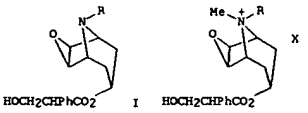
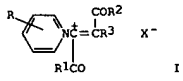


AB (-)-Scopoloamine (I, R = Me) was demethylated by 3 methods to give norscopolamine (I, R = H) which was alkylated to give I (R = alkyl) (26 compds.), which were quaternized to give the quaternary salts II (R = alkyl, X = Br, MeSO3). (-)-II (R = Et, X = Br) was an anticholinergic bronchodilator with long duration of action.
ACCESSION NUMBER: 1985:596293 CAPLUS
DOCUMENT NUMBER: 103:196293
TITLE: Synthesis of anticholinergically active N-alkylnorscopolamines and their quaternary salts with particular consideration of the bronchospasmolytic compound (-)-N-ethylnorscopolamine methobromide (Ba 253 BR)
AUTHOR(S): Banholzer, R.; Pook, K. H.
CORPORATE SOURCE: Abt. Pharmachem., Boehringer Ingelheim K.-G., Ingelheim/Rhein, 6507, Fed. Rep. Ger.
SOURCE: Arzneimittel-Forschung (1985), 35(1A), 217-28
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: German
IT 98321-43-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 98321-43-8 CAPLUS
CN 3-Oxa-9-azatricyclo[3.3.1.02,4]nonane-9-acetic acid, 7-(3-hydroxy-1-oxo-2-phenylpropoxy)-, phenyl ester, hydrochloride, (7(S)-(1α,2β,4β,5α,7β)]- (9CI) (CA INDEX NAME)

L8 ANSWER 40 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Sep 1985
GI

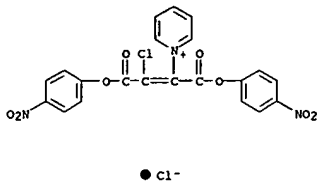


AB Title compds. I (R = H, alkyl, alkoxy, dialkylamino; R1, R2 = alkyl, aralkyl, aryl, alkoxy, aralkoxy, aryloxy, alkylthio, aralkylthio, arylthio; R3 = F, Cl, Br, iodo; X- = halide, ClO4-, BF4-) were prepared by reacting R1COC.tplbond.CCOR2 with halogen and (un)substituted pyridines (II); or by reacting R1COCR4:CR5COR2 (R4, R5 = F, Cl, Br, iodo) with II; or by reacting R6COCR7:CR8COR9 (R6-R9 = F, Cl, Br, iodo) with R1OH or R1SH and II. Thus, 4-O2NC6H4O2CCC1:CC1CO2C6H4NO2-4 was treated with pyridine to give 99% I (R = H, R1 = R2 = 4-O2NC6H4O, R3 = Cl, X = Cl). I are useful as intermediates in the preparation of dyes, heterocycles, polymers, and biol. active substances.
ACCESSION NUMBER: 1985:487778 CAPLUS
DOCUMENT NUMBER: 103:87778
TITLE: N-(1,2-Diacyl-2-halo-1-vinyl)pyridinium salts
INVENTOR(S): Richter, Andreas M.; Fanghaenel, Egon
PATENT ASSIGNEE(S): Technische Hochschule "Carl Schorlemmer" Leuna-Merseburg, Ger. Dem. Rep.
SOURCE: Ger. (East), 7 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

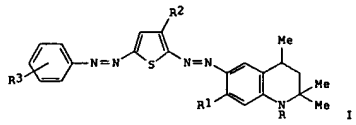
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 215308	A1	19841107	DD 1983-251654	19830602
PRIORITY APPLN. INFO.:			DD 1983-251654	19830602

IT 97683-50-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 97683-50-6 CAPLUS
CN Pyridinium, 1-[2-chloro-3-(4-nitrophenoxy)-1-[(4-nitrophenoxy)carbonyl]-3-oxo-1-propenyl]-, chloride (9CI) (CA INDEX NAME)

L8 ANSWER 40 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 41 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 20 Apr 1985
GI



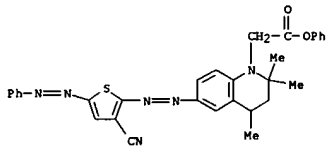
AB The title dyes were prepared having the general formula I [R = (un)substituted alkyl, allyl, cycloalkyl; R1 = H, halogen, alkyl, BzNH, AcNH, EtCONH; R2 = CN, alkoxycarbonyl, carbamoyl; R3 = H, halogen, NO2, CHO, SCN, CF3, alkoxycarbonyl]. Thus, aniline [62-53-3] was diazotized and coupled with 2-amino-3-cyanothiophene [4651-82-5], and the resulting 2-amino-3-cyano-5-(phenylazo)thiophene [83749-49-9] was diazotized and coupled with 1-(2-methoxycarbonylethyl)-2,2,4-trimethyl-1,2,3,4-tetrahydroquinoline [95572-19-3] to obtain I (R = CH2CH2CO2Me, R1 = R3 = H, R2 = CN) [95572-21-7].

ACCESSION NUMBER: 1985:133542 CAPLUS
DOCUMENT NUMBER: 102:133542
TITLE: Blue disazo disperse dyes for polyester fibers
PATENT ASSIGNEE(S): Gosei Senryo Gijutsu Kenkyu Kumiai, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

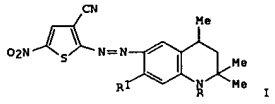
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59193961	A2	19841102	JP 1983-68537	19830419
JP 03076349	B4	19911205		
PRIORITY APPLN. INFO.:			JP 1983-68537	19830419

IT 95571-60-1
RL: TEM (Technical or engineered material use); USES (Uses)
(dye, blue, for polyester fibers)
RN 95571-60-1 CAPLUS
CN 1(2H)-Quinolineacetic acid, 6-[[3-cyano-5-(phenylazo)-2-thienyl]azo]-3,4-dihydro-2,2,4-trimethyl-, phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 41 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 42 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 10 Nov 1984
GI

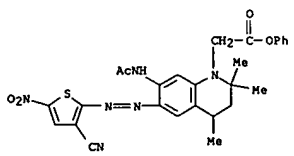


AB The title dyes were prepared having general formula I [R = (un)substituted alkyl, allyl, cyclohexyl; R1 = H, Cl, Me, AcNH, EtCONH]. Thus, 2-amino-3-cyano-5-nitrothiophene [56387-09-8] was diazotized and coupled with 1-(2-methoxyethyl)-2,2,4,7-tetramethyl-1,2,3,4-tetrahydroquinone [92585-52-9] to give light- and sublimation-fast blue I (R = CH2CH2OMe; R1 = Me) [92560-01-5].

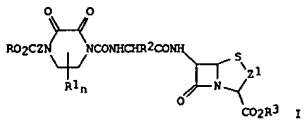
ACCESSION NUMBER: 1984:573021 CAPLUS
DOCUMENT NUMBER: 101:173021
TITLE: Bright blue disperse azo dyes for polyester fibers
PATENT ASSIGNEE(S): Gosei Senryo Gijutsu Kenkyu Kumiai, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59096170	A2	19840602	JP 1982-205258	19821122
PRIORITY APPLN. INFO.:			JP 1982-205258	19821122

IT 92559-63-2
RL: TEM (Technical or engineered material use); USES (Uses)
(dye, blue, for polyester fibers)
RN 92559-63-2 CAPLUS
CN 1(2H)-Quinolineacetic acid, 7-(acetylamino)-6-[(3-cyano-5-nitro-2-thienyl)azo]-3,4-dihydro-2,2,4-trimethyl-, phenyl ester (9CI) (CA INDEX NAME)



L8 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
GI



I

AB Sixteen penicillins and cephalosporins I [R = ester-forming residues; R1 = H, alkyl; n = 0-2; R2 = aryl; R3 = H, ester-forming residues, salt-forming ions; Z = alkylene; Z1 = CMe2, CH2C(CH2Z2R5); R5 = organic residues; Z2 = O, S] were prepared Min. inhibition concns. were given against 6 bacteria strains. Thus, a mixture of 4.8 g D(-)-α-(4-phthalidyloxycarbonylmethyl-2,3-dioxo-1-piperazinylcarboxamido)phenylaceti c acid, 1.1 g Et3N, and 1 drop N-methylmorpholine in CH2Cl2 was kept 15 min at room temperature, 1.2 g ClCO2Et added at -50°, the mixture kept 60 min at -40° to -30° and 60 min at -30° to -20°, 3.2 g 6-aminopenicillanic acid-Et3N in CH2Cl2 added at -40°, and the mixture kept 60 min at -40° to -30°, 60 min at -30° to -20°, and 30 min at room temperature to give 75.2% D-(-)-I (R = phthalidyl, R1 = R3 = H, R2 = Ph, Z = Z1 = CH2).

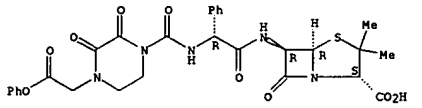
ACCESSION NUMBER: 1980:408164 CAPLUS
DOCUMENT NUMBER: 93:8164
TITLE: Penicillins and cephalosporins
INVENTOR(S): Saikawa, Isamu; Hori, Takako; Imaizumi, Hiroyuki; Konishi, Yoshikazu; Ochiai, Hirokazu; Hirakawa, Tatsuo; Miyahara, Maki; Hayashiyama, Michiko; Sadaki, Hiroshi; et al.
PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54157586	A2	19791212	JP 1978-63794	19780530
PRIORITY APPLN. INFO.:			JP 1978-63794 A	19780530

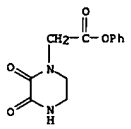
IT 73658-90-9P 73659-17-3P 73659-19-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 73658-90-9 CAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[[[[2,3-dioxo-4-(2-oxo-2-phenoxyethyl)-1-piperazinyl]carbonyl]amino]phenylacetyl]amino]-3,3-

L8 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
dimethyl-7-oxo-, [2S-[2α,5α,6β(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

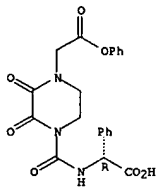


RN 73659-17-3 CAPLUS
CN 1-Piperazineacetic acid, 2,3-dioxo-, phenyl ester (9CI) (CA INDEX NAME)



RN 73659-19-5 CAPLUS
CN 1-Piperazineacetic acid, 4-[[(carboxyphenylmethyl)amino]carbonyl]-2,3-dioxo-, α-phenyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Seven isoquinoline-2-acetamide derivs. (I, X = NCHRCONR1R2; R = H or Me; R1 = H, Me, Et, Pr, or CHMe2; R2 = H or Me) with muscle relaxant, sedative, antiarrhythmic, and anticonvulsive activities were prepared by various methods, e.g. by reaction of I (X = NH) with ClCHRCONR1R2 in the presence of Me3COK; from melts of I (X = O) or 2-(HO2CCMe2)C6H4CO2H and H2NCHRCONR1R2; or from I (X = NCHRCOR3, R3 = e.g. OH or Cl) and HNR1R2. Pharmaceutical compns. were reported.

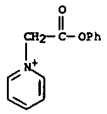
ACCESSION NUMBER: 1974:120794 CAPLUS
DOCUMENT NUMBER: 80:120794
TITLE: Pharmaceutical isoquinoline-2-acetamides
INVENTOR(S): Kutter, Eberhard; Austel, Volkhard; Kaehling, Joachim; Ziegler, Harald
PATENT ASSIGNEE(S): Thomae, Dr. Karl, G.m.b.H.
SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2237770	A1	19740214	DE 1972-2237770	19720801
FR 2194435	A1	19740301	FR 1973-27882	19730730
CH 611280	A	19790531	CH 1973-639078	19730730
CH 611887	A	19790629	CH 1973-498578	19730730
CH 611888	A	19790629	CH 1973-638978	19730730
CH 612184	A	19790713	CH 1973-638878	19730730
CH 615918	A	19800229	CH 1973-11065	19730730
BE 803086	A1	19740131	BE 1973-134124	19730731
NL 7310562	A	19740205	NL 1973-10562	19730731
JP 49080080	A2	19740802	JP 1973-86297	19730731
JP 55008973	B4	19800307		
AU 7358735	A1	19750206	AU 1973-58735	19730731
ES 417443	A1	19760316	ES 1973-417443	19730731
GB 1450793	A	19760929	GB 1973-36388	19730731
FI 52218	B	19770331	FI 1973-2412	19730731
AT 7306737	A	19750715	AT 1973-6737	19730801
AT 329059	B	19760426		
AT 7502259	A	19750715	AT 1973-225975	19730801
AT 7502260	A	19750815	AT 1973-226075	19730801
ES 422929	A1	19760616	ES 1974-422929	19740205
ES 422930	A1	19760616	ES 1974-422930	19740205
ES 422931	A1	19760616	ES 1974-422931	19740205
ES 422932	A1	19760616	ES 1974-422932	19740205
ES 422933	A1	19760616	ES 1974-422933	19740205
AT 7502258	A	19750915	AT 1975-2258	19750325
AT 330182	B	19760625		
AT 7502261	A	19750915	AT 1975-2261	19750325
AT 330183	B	19760625		
AT 7502262	A	19750915	AT 1975-2262	19750325
AT 330184	B	19760625		
CH 615423	A	19800131	CH 1978-4986	19780508
PRIORITY APPLN. INFO.:			DE 1972-2237770 A	19720801
			CH 1973-11065 A	19730730
			AT 1973-6737 A	19730801

IT 52074-68-7

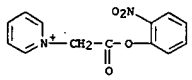
L8 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with ammonia)
RN 52074-68-7 CAPLUS
CN 2(1H)-Isoquinolineethanethioic acid, 3,4-dihydro-4,4-dimethyl-1,3-dioxo-, S-phenyl ester (9CI) (CA INDEX NAME)

L8 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
AB The synthesis and reactivity of alkyl and aryl chloroacetamides were reviewed with 66 refs.
ACCESSION NUMBER: 1972:434045 CAPLUS
DOCUMENT NUMBER: 77:34045
TITLE: Synthesis and reactivity of chloroacetamides
AUTHOR(S): Svetkin, Yu. V.
CORPORATE SOURCE: Chem. Fac., Bashk. State Univ., Ufa, USSR
SOURCE: Wissenschaftliche Zeitschrift - Martin-Luther-Universitaet Halle-Wittenberg, Mathematisch-Naturwissenschaftliche Reihe (1972), 21(2), 99-123
CODEN: WMHMAP; ISSN: 0138-1504
DOCUMENT TYPE: Journal; General Review
LANGUAGE: German
IT 37161-48-1 37161-51-6 37161-52-7
37161-53-8 37161-54-9
RL: RCT (Reactant); RACT (Reactant or reagent))
RN 37161-48-1 CAPLUS
CN Pyridinium, 1-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

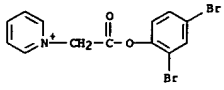
RN 37161-51-6 CAPLUS
CN Pyridinium, 1-[2-(2-nitrophenoxy)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)



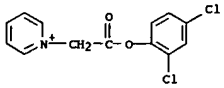
● Cl⁻

RN 37161-52-7 CAPLUS
CN Pyridinium, 1-[2-(2,4-dibromophenoxy)-2-oxoethyl]- (9CI) (CA INDEX NAME)

L8 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

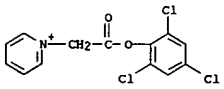


RN 37161-53-8 CAPLUS
CN Pyridinium, 1-[2-(2,4-dichlorophenoxy)-2-oxoethyl]-, chloride (9CI) (CA INDEX NAME)

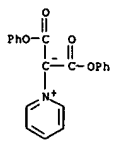


● Cl⁻

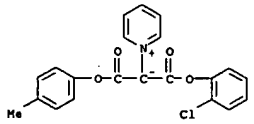
RN 37161-54-9 CAPLUS
CN Pyridinium, 1-[2-oxo-2-(2,4,6-trichlorophenoxy)ethyl]- (9CI) (CA INDEX NAME)



L8 ANSWER 46 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB The pyridinium malonate enol betaines I (R = Et, Bu, Ph, 2,4-Cl(Me)C6H3) and II (R1 = Et, Ph) in which the ester group is alkyl showed complete resonance of the ester carbonyls. I and II in which the ester group is phenolic on the other hand showed considerable ylide participation. In [(ethoxycarbonyl)(phenoxycarbonyl)methyl]pyridinium enol betaine the charge distribution was controlled largely by the alkyl ester group. The ir observations were confirmed by the chemical behavior of the betaines. Thus bis(phenoxycarbonyl)methylpyridinium enol betaine decomposed completely at its m.p. The Et and Bu malonates I underwent thermolysis to picolinic acid esters. Intramol. protonation is suggested as the first step in the thermolysis.
ACCESSION NUMBER: 1971:405645 CAPLUS
DOCUMENT NUMBER: 75:5645
TITLE: Reactions with betaine. 6. Chemistry of several malonate enol betaines
AUTHOR(S): Wittmann, Helga; Kuhn-Kuhnenfeld, Johanna; Binder, H.; Sterk, Heinz; Ziegler, Erich
CORPORATE SOURCE: Inst. Org. Chem., Univ. Graz, Graz, Austria
SOURCE: Monatsh. Chem. (1971), 102(2), 404-11
CODEN: MOCHAP
DOCUMENT TYPE: Journal
LANGUAGE: German
IT 32092-55-0P 32092-56-1P 32254-13-0P
32353-83-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32092-55-0 CAPLUS
CN Pyridinium, dicarboxymethylide, diphenyl ester (8CI) (CA INDEX NAME)

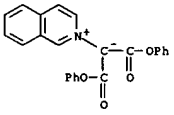


RN 32092-56-1 CAPLUS
CN Pyridinium, dicarboxymethylide, o-chlorophenyl p-tolyl ester (8CI) (CA INDEX NAME)

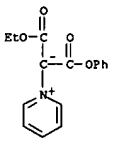


L8 ANSWER 46 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 32254-13-0 CAPLUS
CN Isoquinolinium, dicarboxymethylide diphenyl ester (8CI) (CA INDEX NAME)



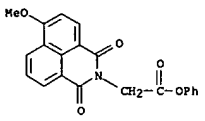
RN 32353-83-6 CAPLUS
CN Pyridinium, dicarboxymethylide, ethyl phenyl ester (8CI) (CA INDEX NAME)



L8 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB I, heat-resistant fluorescent whiteners for synthetic fibers and plastics, are prepared by esterification of I(R1 = H). Thus, 30 parts 4-sulfonaphthalic anhydride Na salt in 158 parts 10% aqueous H2NCH2CO2H (II) was refluxed for 10 hr and salted with 14 parts NaCl. The solid (20 parts) was refluxed for 20 hr with 18.6 parts NaOH in 167 parts MeOH, cooled, and the solid purified by salting from 300 parts H2O and acidified to give I (R = Me, R1 = H, n = 1), m. 252-5° (aqueous HCONMe2). The condensation was also performed at room temperature with H2NCH2CO2Et instead of
II. Similarly, the following I (R1 = H, n = 1) were prepared (R and m.p. given): Et, 262-3°; MeOCH2CH2, 222-3°; EtOCH2CH2, 193-4.5°; BuOCH2CH2, 158-60°. Esterification with R1OH and H2SO4 or POCl3 gave the following I (n = 1) with λmaxEtOH 365 8 mμ (R, R1, and m.p. given): Me, Me, 189-90°; Et, Et, 135-6°; Me, Et, 186-7°; Me, iso-Pr, 183-4°; Me, Bu, 137-8°; MeOCH2CH2, Et, 154.5-5.5°; MeOCH2CH2, Me, 145-6°; EtOCH2CH2, Et, 155-6°; BuOCH2CH2, Et, -; Me, Ph, 148-9°. Also prepared were I (R = R1 = Me) (n and m.p. given): 0, 251-2°; 2, 14 4-5°.
ACCESSION NUMBER: 1970:134167 CAPLUS
DOCUMENT NUMBER: 72:134167
TITLE: Naphthalimide fluorescent whitening agents
INVENTOR(S): Noguchi, Tamehiko; Tsukamoto, Kenkichi
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 8 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

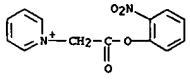
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 45002672	B4	19700129	JP	19670310

IT 25737-42-2P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 25737-42-2 CAPLUS
CN 1H-Benz[de]isoquinoline-2(3H)-acetic acid, 6-methoxy-1,3-dioxo-, phenyl ester (8CI) (CA INDEX NAME)

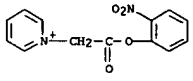


L8 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L8 ANSWER 48 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
AB Second-order rate consts. for reaction of a variety of charged and uncharged nucleophilic reagents with a series of neutral and charged o-nitrophenyl (o-NP) acetates of the type XCO2-o-NP [X = Me, Et, PhCH2, PhOCH2, EtSCH2, BrCH2, ClCH2, Cl2CHCH2, Me3N+CH2 and pyridiniummethyl (C5H5B+CH2)] have been measured in aqueous solution at 30°, ionic strength = 1.0. The importance of electrostatic effects was adjudged for each nucleophile from plots of the log of the second-order rate consts. for water-catalyzed hydrolysis vs. the log of the second-order rate consts. for the individual nucleophile. The pos. charged esters exhibit abnormally rapid reactions with the anionic nucleophiles, acetate, phosphate, and carbonate but not with hydroxide nor trifluoroethoxide, and abnormally slow reactions with the amines, ethylenediamine, methoxyamine, and glycine ethyl ester. Since the deviations are observed with neutral amines and certain anionic nucleophiles and not others, electrostatic effects on collision frequency are adjudged to be insignificant. These results find explanation through electrostatic stabilization or destabilization of transition states.
ACCESSION NUMBER: 1969:421584 CAPLUS
DOCUMENT NUMBER: 71:21584
TITLE: Electrostatic catalysis. III. Comparison of the reactivity of α-substituted o-nitrophenyl esters with anionic and amine nucleophiles
AUTHOR(S): Holmquist, Barton; Bruice, Thomas C.
CORPORATE SOURCE: Univ. of California, Santa Barbara, CA, USA
SOURCE: Journal of the American Chemical Society (1969), 91(11), 2985-93
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 24265-35-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction of, kinetics of)
RN 24265-35-8 CAPLUS
CN Pyridinium, 1-(carboxymethyl)-, o-nitrophenyl ester (8CI) (CA INDEX NAME)



L8 ANSWER 49 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 12 May 1984
AB The pH-log khydr profiles for the hydrolysis of a series of α-substituted o-nitrophenyl acetate esters [XCO2-o-NP (X = Et, Me, PhCH2, EtSCH2, Me3N+CH2, PhOCH2, BrCH2, ClCH2, C5H5N+CH2, and Cl2CH] have been determined in water at 30°, ionic strength = 1.0, between pH 1 and 12.53. The values of khydr at all pH values are quant. provided by summation of rates for spontaneous general base catalyzed hydrolysis (kH2O) and hydroxide ion catalyzed hydrolysis (XOH[HO-]). For the esters in which the α-substituent group equals Me, Et, and PhCH2 a specific acid catalyzed term (kHαH) must be included to provide khydr at low values of pH. A plot of log kH2O vs. log kOH for all esters, including the pos. charged species, was linear and follows the equation log kOH = 0.84 log kH2O + 8.0. The fact that esters containing formal pos. charges do not show pos. deviations from the plot of log kOH vs. log kH2O is indicative that electrostatic facilitation for the nucleophilic displacement of o-nitrophenoxide by hydroxide ion is unimportant.
ACCESSION NUMBER: 1969:421377 CAPLUS
DOCUMENT NUMBER: 71:21377
TITLE: Electrostatic catalysis. II. Comparison of spontaneous and alkaline hydrolytic rate constants for α-substituted o-nitrophenyl esters
AUTHOR(S): Holmquist, Barton; Bruice, Thomas C.
CORPORATE SOURCE: Univ. of California, Santa Barbara, CA, USA
SOURCE: Journal of the American Chemical Society (1969), 91(11), 2982-5
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 24255-21-8
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(hydrolysis of, kinetics of)
RN 24255-21-8 CAPLUS
CN Pyridinium, 1-(carboxymethyl)-, bromide, o-nitrophenyl ester (8CI) (CA INDEX NAME)



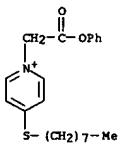
● Br⁻

L8 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Apr 2001
GI For diagram(s), see printed CA Issue.
AB Title compds. (I) were prepared for use as fungicides and disinfectants. A mixture of 14 g. 4-pyridyl n-dodecyl thio ether, 6 g. CH2BrCH:CH2, and 50 ml. MeCN was refluxed 4 hrs., filtered over charcoal, and EtOAc added to the cool filtrate to give 75% I (R = n-dodecyl, R1 = allyl, R2 = H, X = Br, m. 59° (EtOAc). Similarly prepared were the following I (R, R1, R2, X, m.p. and % yield given): Me, C12H25, H, p-Me-C6H4SO3, 138-9°; 90; Me, C12H25, H, MeOSO3, 83°, 88; Me, C16H33, H, p-MeC6H4SO3, 125-6°, 61; Me, C16H33, 3-Me, p-Me-C6H4SO3, 52°, 36; Me, o-HOC6H4, H, p-MeC6H4SO3, 213°, 94; Me, p-ClC0H4, H, p-MeC6H4SO3, 153-5°, 89; Me, o-HO2CC6H4, H, p-MeC6H4 SO3, 114°, 89; Me, p-O2NC6H4, H, p-MeC6H4SO3, 170°, 75; Me, p-ClC6H4CH2, H, p-MeC6H4SO3, 188°, 64; HOCH2CH2, p-ClC6H4, H, Br, 150-1° 92; HO2CCH2, C16H33, H, Cl, 93°, 54; EtO2CCH2, C12H25, H, Cl, 170°, 75; iso-PrO2CCH2, C12H25, H, Cl, 112°, 46; BuO2CCH2, C12H25, H, Cl, 84°, 49; n-C8H17O2CCH2, C8H17, H, Cl, 169°, 42; n-C8H17O2CCH2, C12H25, H, Cl, 164-6°, 54; n-C12H25O2CCH2, Et, H, Cl, 169-70° 47; PhO2CCH2, C3H17, H, Cl, wax-like, 39; H2NCOCH2, C12H25, H, Cl, 217° (decomposition), 76; Et2NCOCH2, C12H25, H, Cl, 82°, 89; iso-PrO2CCH2CH2, C12H25, H, Cl, 114°, 48; 2,4,5-Cl3C6H2CH2, C14H29, H, Cl, 100-101°, 66; 2,4,5-Cl3C6H2CH2, o-HOC6H4, H, Cl, 185-8°, 62; 2,4,5-Cl3C6H2CH2, p-ClC6H4, H, Cl, 183-4°, 98; C12H25, Me, H, Br, 105°, 51; C16H33, p-ClC6H4, H, Br, 104-5°, 76; p-O2NC6H4CH2, C12H25, H, Cl, 120-2°, 71; CH2CH:CH2, C16H33, H, Br, 72-5°, 70; CH2CO2Et, C16H33, H, Cl, 150-3°, 66; CH2CO2Et, p-ClC6H4CH2, H, Cl, 166° 42; CH2CO2C5H11-n, Et, H, Cl, 180°, 64; CH2CO2C5H11-n, C12H25, H, Cl, 184°, 56; CH2CO2C5H11-n, C16H33, H, Cl, 175-8°, 70; CH2CO2C5H11-n, p-ClC6H4CH2, H, Cl, 193°, 38; CH2CO2C8H17-n, Et, H, Cl, 168°, 48; CH2CO2C8H17-n, C16H33, H, Cl, 146-8°, 74; CH2CO2C8H17-n, p-ClC6H4CH2, H, Cl, 197°, 41; PhCH2, C16H33, H, Cl, 113°, 56; p-ClC6H4CH2, C16H33, H, Cl, 176-8°, 63; 2,4,5-Cl3C6H2CH2, C16H33, H, Cl, 116°, 44; p-MeC6H4CH2, C12H25, H, Cl, 30-40°, 30; C12H25, CH2CH:CH2, H, Br, 63°, 35; Me, CH2CO2C8H17-n, H, p-MeC6H4SO3, 118-21°, 69; Me, 2-C10H7, H, p-MeC6H4SO3, 119°, 71; CH2CH:CH2, 2-C10H7, H, Br, 171-5°, 22; C12H25, C8H17 H, Br, 106-8°, 45; 2,4-(O2N)2C6H3, C12H25, H, Cl, 154-5° 67; C12H25, Ph, H, Br, 74-6°, 50; C12H25, p-ClC6H4CH2, H, Br, 125-6°, 52; CH2CH:CH2, p-ClC6H4CH2, H, Br, 124-6°, 84; CH2Ph, p-ClC6H4CH2, H, Cl, 174-5°, 46; CH2Ph, p-ClC6H4, H, Cl, 210-12°, 50; p-ClC6H4CH2, p-ClC6H4, H, Cl, 184-6°, 78; CH2-CH:CH2, p-ClC6H4, H, Cl, 173-5°, 59; o-ClC6H4CH2, C12H25, H, Cl, 79-81°, 63; o-ClC6H4CH2, p-ClC6H4, H, Cl, 188-9°, 54. N-Methyl-4-thiopyridone (II) (2.5 g.), m. 150-5° (Me2CO), was prepared from 5.5 g. 4-chloropyridine methiodide and 18 g. KSH. N-Methyl-4-n-dodecylthiopyridinium bromide (1.2 g.), m. 78-80° (EtOH-Et2O), was prepared in 80% yield from 0.5 g. II and 1 g. n-C12H25Br. 4-Cetylthio-1-methylpyridinium p-toluenesulfonate (50 g.) and 5 g. Na naphthalenesulfonate was dissolved in 10 l. H2O to give a solution highly effective against Peronospora viticola and Phytophthora.
ACCESSION NUMBER: 1965:431609 CAPLUS
DOCUMENT NUMBER: 63:31609
ORIGINAL REFERENCE NO.: 63:5611b-g

L8 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
TITLE: Quaternary 4-pyridyl thio ethers
PATENT ASSIGNEE(S): Boehringer Ingelheim G.m.b.H.
SOURCE: 12 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 992157		19650519	GB 1962-32697	19620824
PRIORITY APPLN. INFO.:			DE	19610825

IT 1816-59-7, Pyridinium, 1-(carboxymethyl)-4-(octylthio)-, chloride, Ph ester
(preparation of)
RN 1816-59-7 CAPLUS
CN Pyridinium, 4-(octylthio)-1-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)



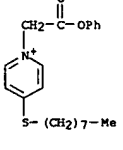
● Cl⁻

L8 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Apr 2001
GI For diagram(s), see printed CA Issue.
AB Compns. (I), where R is an alkyl group with 1-16 C atoms, a chloro, hydroxy, carboxy, nitrophenyl, or a chlorobenzyl group, R1 is a saturated or unsatd. alkyl group which may be substituted by a hydroxy, carboxy, carbalkoxy, carbamido, benzyl, or substituted benzyl group, R2 is H or Me, and X is an organic or inorg. acid anion, were prepared 4-Pyridyldodecyl sulfide (14 g.) and 6 g. allyl bromide in 50 cc. MeCN were refluxed 4 hrs. The hot liquid was filtered (C), the product precipitated from the cooled solution with EtOAc, and recrystd. from this solvent to yield 15 g. N-allyl-4-dodecylthiopyridinium bromide, m. 59°. In applying the method to the preparation of various I, reaction temperature ranged from 70-130°, and reaction time from 1-20 hrs., the usual time being 8 hrs.; yields varied from 12-98%, most being over 50%. The following I were prepared (R1, R, R2, X, and m.p. given): Me, C12H25, H, p-MeC6H4SO3, 138-9°; Me, C12H25, H, MeSO4, 83°; Me, C16H33, H, p-MeC6H4SO3, 125-6°; Me, C16H33, 3-Me, p-MeC6H4SO3, 52°; Me, o-HOC6H4, H, p-MeC6H4SO3, 213°; Me, p-ClC6H4, H, p-MeC6H4SO3, 153-5°; Me, o-HO2CC6H4, H, p-MeC6H4SO3, 173-5°; Me, o-O2NC6H4, H, p-MeC6H4SO3, 114°; Me, p-O2NC6H4, H, p-MeC6H4SO3, 170°; Me, p-ClC6H4CH2, H, p-MeC6H4SO3, 188°; HOCH2CH2, p-ClC6H4, H, Br, 150-1°; HO2CCH2, C16H33, H, Cl, 93°; EtO2CCH2, C12H25, H, Cl, 170°; iso-PrO2CCH2, C12H25, H, Cl, 112°; BuO2CCH2, C12H25, H, Cl, 84°; C8H17O2CCH2, C8H17, H, Cl, 169°; C8H17O2CCH2, C12H25, H, Cl, 164-6°; C12H25O2CCH2, Et, H, Cl, 169-70°; PhO2CCH2, C8H17, H, Cl, waxy; H2NCOCH2, C12H25, H, Cl, 217° (decomposition); Et2NCOCH2, C12H25, H, Cl, 82°; iso-PrO2CCH2CH2, C12H25, H, Cl, 114°; 3,4-dichlorobenzyl, C14H29, H, Cl, 100-1°; 2,4,5-trichlorobenzyl, o-HOC6H4, H, Cl, 185-8°; 2,4,5-trichlorobenzyl, p-ClC6H4, H, Cl, 183-4°; C12H25, Me, H, Br, 105°; C16H33, p-ClC6H4, H, Br, 104-5°; p-O2NC6H4CH2, C12H25, H, Cl, 120-2°; CH2:CHCH2, C16H33, H, Br, 72-5°; EtO2CCH2, C16H33, H, Cl, 150-3°; EtO2CCH2, p-ClC6H4CH2, H, Cl, 166°; C5H11O2CCH2, Et, H, Cl, 180°; C5H11O2CCH2, C12H25, H, Cl, 184°; C5H11O2CCH2, C16H33, H, Cl, 175-8°; C5H11O2CCH2, p-ClC6H4CH2, H, Cl, 193°; C8H17O2CCH2, Et, H, Cl, 168°; C8H17O2CCH2, C16H33, H, Cl, 146-8°; C8H17O2CCH2, p-ClC6H4CH2, H, Cl, 197°; PhCH2, C16H33, H, Cl, 113°; p-ClC6H4CH2, C16H33, H, Cl, 176-8° 2,4,5-trichlorobenzyl, C16H33, H, Cl, 116°; p-MeC6H4CH2, C12H25, H, Cl, 30-40°. In another example, 5.5 g. 4-chloropyridine methiodide and 18 g. KSH in 80 cc. absolute EtOH was heated at 60° 6 hrs. The solvent was evaporated under reduced pressure and the product was worked up from a MeCO extract of the residue. The yield of N-methyl-4-pyriddinethione was 2.5 g., m. 150-2° (Me2CO). On heating 0.5 g. of the thione with 1 g. C12H25Br in BrOH 1 hr. at 90°, then cooling, precipitating the product With ether, and repptg. from EtOH with ether, 1.2 g. 4-dodecylthio-N-methylpyridinium bromide, m. 78-80°, was obtained. These compds. are suitable as medical and industrial disinfectants. Because of their low phytotoxicity, they can also be used as very effective fungicides for plants. They are particularly effective against fungi which are difficult to combat, e.g. Aspergillus niger and Candida albicans. A composition made by mixing 50 g. 4-cetyl-thio-1-methylpyridinium p-toluenesulfonate, 45 g. kaolin, and 5 g. Na naphthalenesulfonate and adding water to a volume of 10 l. was very effective against Plasmopara viticola and Phytophthora.
ACCESSION NUMBER: 1964:9698 CAPLUS

L8 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
DOCUMENT NUMBER: 60:9698
ORIGINAL REFERENCE NO.: 60:1712d-h,1713a-b
TITLE: Disinfectant and fungicidal quaternary pyridyl 4-thio ethers
INVENTOR(S): Sohn, C. H. Boehringer
SOURCE: 15 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 621044		19630222	BE	
PRIORITY APPLN. INFO.:			DE	19610825

IT 1816-59-7, Pyridinium, 1-(carboxymethyl)-4-(octylthio)-, chloride, Ph ester
(preparation of)
RN 1816-59-7 CAPLUS
CN Pyridinium, 4-(octylthio)-1-(2-oxo-2-phenoxyethyl)-, chloride (9CI) (CA INDEX NAME)



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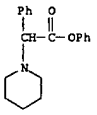
L8 ANSWER 52 OF 52 CAPLUS COPYRIGHT 2006 ACS on STN
ED Entered STN: 22 Apr 2001
AB Intermediate substances for therapeutically active α-phenyl-α-dialkylaminoacetic acid dialkylaminoethyl esters of the formula PhCHR1CO2R2, where R1 is a secondary amine and R2 a substituted or nonsubstituted phenyl group, are obtained by condensation of a α-phenyl-α-dialkylaminoacetic acid HCl salt and a phenol in the presence of POCl3. Those substances are hitherto unknown. E.g.: phenylpiperidinoacetic acid HCl salt (49 g.) was dissolved in 150 ml. C5H5N on the H2O bath, the solution cooled, 19 g. PhOH in 50 ml. C5H5N added, then, dropwise, 30 g. POCl3 (violent reaction). After the reaction has subsided the whole was boiled 1 hr. on the H2O bath, H2O added and the separated oil distilled, bl.5 171-5°. The HCl salt, m. 110-12°, can be obtained by treating the ester with HCl gas in an Et2O solution
ACCESSION NUMBER: 1959:1938 CAPLUS
DOCUMENT NUMBER: 53:1938
ORIGINAL REFERENCE NO.: 53:298a-c
TITLE: Substituted esters of phenylacetic acid
INVENTOR(S): Bothe, Horst; Wunderlich, Helmut
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 10328		19550825	DD	

IT 102177-79-7, 1-Piperidineacetic acid, α-phenyl-, phenyl ester
(preparation of)
RN 102177-79-7 CAPLUS
CN 1-Piperidineacetic acid, α-phenyl-, phenyl ester (6CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	451.98	787.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-66.00	-66.00

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